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CITY DOCUMENTS
OF THE
CITY OF LOWELL
MASSACHUSETTS
FOR THE
YEAR 1921-1922



J. H. Broadbent, Printer, Lowell, Mass.

EXTRACTS FROM THE ORDINANCES OF LOWELL

CHAPTER VIII—CITY DOCUMENTS

Section 5. All City Documents [except the Rules and Regulations for the Government of the Police and Fire Departments] shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

Section 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the Library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the Library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell

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INAUGURAL ADDRESS
OF
Hon. George H. Brown
MAYOR CITY OF LOWELL
MASSACHUSETTS



At the Inauguration of the City Government,
January Third, Nineteen Hundred and
Twenty-two.

F. A. M. TOBIN'S PRINTER





Herbert Brown



Members of the City Council:—

In somewhat unusual times and under abnormal conditions, having taken the oath and assumed the responsibilities and burdens of the office of Mayor, I address the Council selected by the people to advise with me and assist me in carrying out the wishes of the Electorate which has given to us the conduct of its affairs for the next two years.

The City which we are to serve faces a condition in many ways critical. I cannot and do not undertake at this time to cover in specific detail the many tasks awaiting immediate accomplishment. I shall from time to time, and perhaps frequently, address to you formal communications on matters affecting the City's interests and the public welfare; and I hope, in friendly interviews with the City Council and all its members, to frequently discuss many of the problems that may arise.

Following some years of unrest, in which two attempts to change the form of Government were unsuccessful, the people have now adopted a new Charter under which they expect us to work successfully in improving conditions, building up the City's resources, (which, as I shall point out in other sections of this address, are in dire need of immediate attention) and in general to conduct that neighborhood work which goes under the common expression of "City Government."

The change in Charter decreed by the people, with the results of the election which followed, honestly interpreted, can have but one meaning. If we

are to be faithful to the trust reposed in us, it is well that we pause here to ask ourselves searchingly what thoughts and purposes have actuated our people, both in the adoption of the new Charter and the selection of ourselves to conduct their affairs. If we answer that question honestly, and are then true to the people's trust, we will have the satisfaction of knowing that we have at least started right.

I interpret the change in Charter and the election which followed, as an insistent demand from the people for a practically complete change in the management of the City's business, in the personnel of those conducting it, in the heads of departments, and all appointive and elective officials; and I interpret it as an imperative demand from the people that the conditions of this City, as regards law enforcement, financial management, wise progress and general upbuilding, be brought to a standard so far in advance of what has prevailed, that, when our work is accomplished, the change, apparent to all, will be remarkable in the extent to which it has gone.

Under the former Charter, as interpreted by the courts, the people saw their municipal affairs reposing in the hands of those who were protected by law from removal and, with great alarm, the people beheld at City Hall a group of officials apparently in office for life, free from the necessity of responding to the public demands for service, and free from that impulse which alone makes public servants efficient and capable—the necessity of public approval if there is to be a continuance in office.

I believe the people look to us to proceed with dignity and calmness, but with irresistible determination and strength, to bring about a change in practically all

the departments of the City. There can be no increased efficiency in any department so long as those under whom inefficiency has grown, are allowed to control. Officials, who, for ten years, have been beyond the necessity of responding to public demand, cannot be expected to become quickly responsive, and the public interest demands that, in the place of these officials, there be appointed and elected new men to bring to the discharge of the duties of the various posts, new blood, new animation, and new aspirations and ideals in the public service.

As rapidly as may be I will send to you nominations for every office to which the Charter provides I shall make nominations. I shall send you the names of none but capable individuals, whether men or women. Every name will be selected by me absolutely free from political consideration or considerations of race or creed, and solely based on my honest judgment of the ability of the individual named, to render the City able, clean and distinctive service.

I have passed through many contests in city matters, and bear some scars of battle, but I have always recognized the fact that the people have an inherent right to have their work conducted as they shall dictate; and no mandate ever given to elected officials was clearer than the direction of the people of this City to myself and to this Council to bring to the public service a list of new men. The Charter which has been adopted by the people, in its general theory, seeks to place the executive responsibilities of the City squarely on the shoulders of the Mayor, and gives the Mayor increased powers over those possessed by that official under our last form of government; and with these powers go immense responsibilities and burdens.

It provides for a Council to advise and assist the Mayor, and I now state that, so far as lies in my power, that high function of the Council I will respect, and seek the benefit of. I ask you men of the Council in turn, to remember that our form of Government itself places the Mayor in the position where the people may hold him responsible. I ask you not to trammel or obstruct me, but in good faith and in a spirit of co-operation to labor with me for the City's interests.

Police Control and Law Enforcement

Here, in the presence of my predecessor in office, whom custom requires should be here, is not the time nor the place to dwell at length upon conditions of law enforcement that have prevailed in the City in the past. I shall make no reference to past conditions. But I do say that I construe the election as a very earnest expression of a desire on the people's part that law enforcement should be placed on a very high plane.

I believe the people desire that the utmost of human power be exerted that the selling of liquor be stopped; and I believe the people feel that gambling should be stamped out at any cost of effort or expense. I have solemnly pledged myself to the people to labor to bring about these results. The only weapon which I can use to do it is the Police Department.

It is common knowledge that this department is sadly demoralized. Discipline has almost ceased to exist in it. Strife and petty jealousies flourish, and the many good and efficient officers who are really desirous of performing the best services they are capable of, find themselves handicapped, and frequently find their work rendered valueless through the lack

of discipline, system, co-ordination and general efficiency. There must be an immediate change in the position of Superintendent of Police.

This is looked for by the people, I believe, more generally and more unanimously than any other change that we may bring about. I have selected a man for this post, and I shall send his name to you for confirmation.

He is a man of sterling character and splendid ability. I ask you to confirm him at once, that the important work awaiting his hand be not delayed a moment.

Budget and Auditing Commission

An important provision of the Charter is that which gives the City a Budget and Auditing Commission. This Commission, if composed of the proper men, will be of great assistance to the Mayor in an advisory capacity, and, in the supervision of the City's expenditures, a proper Commission can be of the utmost public service, and can help to keep expenditures to the lowest point compatible with efficiency in every department. In the general oversight this Commission will have over the payment of bills and the City's expenditures is a field for great public accomplishment.

I have selected three men for this Commission, whose names will be transmitted to you in due form. and I ask their immediate confirmation, because it is essential that the Mayor, without delay, take up with this Commission the matter of the budget and the financial policy of the City, and that this Commission immediately set to work examining the financial con-

dition of the various departments of the city. I believe you gentlemen will confirm my appointees on this important Board.

Board of Public Service

The Street Department and the Water Works are now practically consolidated under the Board of Public Service which consists of three members. This Board will have almost direct charge of all work heretofore conducted by the Street Department and the Water Department. This statement is sufficient so that every citizen can see the importance of the manner in which this Board is to be constituted.

Streets

A survey made some time ago revealed the fact that fifty per cent. of the streets of this City are in poor condition. This is probably no overstatement, but is well within the truth; and unquestionably the condition of the streets of the City is one of the principal causes of dissatisfaction which brought about the adoption of the new Charter and the election of this Government by the people. The streets are not a credit to the City. A community of the size of ours, with its industries and its resources, under proper government, ought to be able to have reasonably passable, convenient and attractive streets.

Their present condition is the result of years of inefficiency and neglect, and the lack of skilled and scientific handling. It is not possible in one year to bring about conditions for the betterment of all the streets of the City, because, using every dollar that would be available short of actual oppression on the tax payer, and with one hundred per cent. efficiency exerted throughout the Department in every branch, it is at

least a five-year task to bring the streets of Lowell up to the standard where they should be, and which the people desire.

The Board of Public Service undoubtedly will formulate definite plans for street improvements. At this time I venture to suggest to the Government that the Board of Public Service should immediately, upon appointment, take up a study of our street conditions, and map out a comprehensive program for the year, taking up perhaps first, important connecting streets like First Street in Centralville, connecting with the Lawrence Boulevard, and Moore Street, connecting Gorham and Lawrence Streets in the southern end of the City; and the streets of this type should be immediately put in first-class condition.

I ask the public in various sections of the City to be reasonably patient in the matter of street improvements, assuring the citizens that I am deeply impressed with the condition of our streets, and that I realize to the fullest extent the necessity for immediate improvements. Under a proper Board of Public Service I believe there can be a great saving of money on any given job over what has prevailed in the past, and the money thus saved will provide for further improvements.

It is absolutely essential that in this Department the City employ brains and skill. I shall give the Board of Public Service my closest co-operation and very best assistance; and I shall discuss with them and the Government from time to time what advances are being made in upbuilding our streets; and I will welcome from every citizen in the City any suggestion looking toward street improvements, and these sug-

gestions will be studied by the Board of Public Service, and the skilled employees over whom it will have charge.

Politics must be eliminated from all departments absolutely, and the employees of these departments, relieved from political interference or pressure, will give the City good, faithful and efficient service.

Water Department

The Water Department is a revenue producing department and should be self-sustaining, and there should be no loans for its maintenance or upkeep. The only loans this department ever should seek should be for some unusual expenditure or great extension, and any loan for ordinary work of maintenance is wrong, and is a financial fallacy of detriment to the City.

Rates have been raised in this department as high as the people will stand. This department should be so managed on its revenues that a fund be set aside, increasing each year, for upkeep, improvements and extensions. This Board of Public Service will find many problems in the Water Department, and as these develop I will expect the Board to take them up with me and through me, perhaps with the City Council; and these problems, as other problems arising in the various departments of the City, should be openly discussed, and their solution openly arrived at, and full and intricate details given to the press that the people may know how their business is being conducted, and the problems which we, as their servants, are attempting to solve in their interest.

The Water Department must be kept up and not allowed to get into a state of decay and neglect, or the

City will be confronted with the burden of installing a new system at the cost of more than a million dollars. For many years to come, however, desirable as this may be, it is absolutely out of the question. To avoid this great expenditure we must protect and up-build the system we now have.

Bridges

The repairs being carried on on Centralville bridge might serve as a revelation to the City as to the condition of the City's bridges. I shall ask the Board of Public Service early to make an examination of every bridge in the City and submit a detailed report. I fear this report will not be pleasant reading to the citizens of the City. We are paying the price of neglect and inefficiency, but before we can change conditions we must know the truth about matters as they stand, however unpleasant that truth may be; and I propose throughout my term of service to truthfully inform the public of the conditions prevailing in every department, and one of the first particulars the public will be given full details of is the condition of City bridges.

Fire Department

I will be called upon to name for your confirmation a Chief of the Fire Department. There is no necessity of calling to the people's mind the importance to our municipal life of this department of the City Government. This City has not an unlimited supply of water, nor has our water system unlimited force or power like some cities. It is necessary that our Fire Department be standardized and kept up to a high degree of efficiency.

The Chief of this department should be a leader; he should be a fire fighter and above all he should be a big, brave, capable man with the love and respect of all the men in the department. I will send to you, gentlemen, the name of a man as Chief of the Fire Department, whom I ask you to confirm without delay, for the reason that any delay in settling the leadership of this department can only tend to confuse, to a breaking down of discipline, and a general injury to the public interest. It is imperative, gentlemen, that the new head of the Fire Department be determined and settled upon at once.

Purchasing Agent

Many of the merchants of Lowell have dealings with this department in the course of a year, and a great deal of the money taken from the tax-payers is spent in the Purchasing Agent's office. This office requires honesty so pronounced that it becomes common knowledge in the City; it requires ability and ceaseless vigilance and energy. The Purchasing Agent, in the proper discharge of his duties, must watch the market for materials and take advantage in a shrewd way of market conditions to advantageously purchase goods and material required by the City.

The proper type of public official in this important office will so conduct himself that he will have the absolute confidence of the people. No condition should be allowed to exist in this office which would justify a breath of suspicion. All goods bought by the City should be bought on quality, after proper tests and thorough examination,—in complicated matters the Purchasing Agent, if necessary, calling to his assistance the aid and advice of experts. In 1909 the City purchased its first piece of motor apparatus. As

Mayor at that time I insisted on the most thorough tests to which the apparatus could be subjected. After twelve years of continuous service, it stands today better than the apparatus that has been purchased in the succeeding years.

I am going to send you, gentlemen, the name of a man for this office whom I personally know to be the embodiment of honor, and a man of capacity. Your duty to the City requires that he be confirmed. In this position there must be no air of uncertainty as to whom the incumbent is to be. The merchants of the City having business with the office are entitled to an official to deal with who is to be there during our term of service. The man whom I shall name will establish in this office an unquestioned system of honest, competitive bidding, and before he is long in the position he will have the confidence and respect of all people who desire to do business with the City on an honest basis.

Health

One of the principal purposes of City Government is organized protection of the public health. One member of the present Board, Dr. Pierre Brunnelle, I will renominate, and I will send you the names of two other competent and efficient gentlemen. I look to this new board to reorganize this department and bring it up to a state of efficiency which I feel has been sadly lacking.

It is not a position for political appointees. It is a place for thoughtful and earnest men, sacrificing willingly of their own time, men who follow the work of the place principally through a love of public service and benefit to humanity. I shall ask the Board from

time to time to adopt stringent sanitary regulations and establish a system of sanitary inspection of tenements and lodging houses, public restaurants, and eating places. The law contemplates that sanitary conditions for the poor shall be made, so far as possible, absolutely equal to those enjoyed by the prosperous, and I intend, through the Board of Health, to give matters of public sanitation earnest attention.

This Board also has broad jurisdiction over food stuffs sold or exposed for sale, and has entire charge of the milk supply, vital to the interests of the sick and little children. The Board that I shall nominate is entitled, gentlemen, to your confidence and your immediate confirmation, and this I ask.

Auditor

One of the most important offices at City Hall is that of City Auditor. Under the Charter the election of this official is left to the City Council. I venture to suggest to you, gentlemen, that as executive official of the City, charged with great responsibilities, I must be in constant conference with this official. The public interest demands that he be of the necessary ability and character to fill this important post. It demands also that the Mayor have in this place an official with whom he can confer at all times on terms of friendly confidence.

I ask you to elect here a man of lofty character and great ability with whom I can readily co-operate, and who will always be available when wanted. An immediate change is necessary in this office for the public good. I ask that you, without delay, elect a man of the type suggested. I feel that this is a fair re-

quest of you, men. From my knowledge of you and the confidence I have in you, I believe it will be granted.

You must not, if you have the welfare of the City at heart, put or keep a man in this position whom you know the Mayor will not be able to co-operate with, or a man in whom the Mayor has no confidence.

Department of Public Buildings

This department is more vital to our welfare than is generally understood. It has oversight over all buildings in the City, has charge of the enforcement of the fire laws in regard to buildings, and has direct control over all public buildings, in addition to the rights it has over private residences, the great tenement blocks, factories, stores and workshops.

No department in the City Government requires ability more than this one. For some years this department has been subjected to very severe criticism on the part of our people, and many complaints have been made from many quarters and from different classes of our citizenship.

I believe the public good requires a change in the head of this department, at once. I am going to send you for confirmation the name of a man long connected with the building industry in Lowell, a man who has proven capacity, and who is of unquestioned integrity, and a man who, from his connections and associations during life, has a sympathetic feeling for those compelled to spend their lives in the crowded quarters and tenement blocks of the City, and for the humble classes of the City housed from one end of the community to the other.

This man will be fully capable of seeing that the law is fully complied with on any building, large or small. He will see to it that grasping landlords and the owners of tenement property are compelled to keep the living quarters of the working people of the City up to the highest standard to which they can be kept under the laws of the Commonwealth.

This man further will see to it that every dollar that this department spends, and the total aggregate in the year is large, yields back to the City one hundred cents of value.

Department of Charities

The activities of this department, in a deep and very vital manner, affect the City. It is a department in which money must not be spared when needed. The noblest work a city can perform is to tenderly and decently care for the unfortunate of life's race who are unable to provide for themselves. In all my public life I have spared no pains of personal time and effort to see that the Charity Department of this City yielded for the unfortunate people to whom it ministers, a maximum.

Every dollar the City spends for public charity ought to yield one hundred cents worth of value, and any failure of this standard, in the final analysis must come from the poor men and women and little children for whose assistance the department is established and maintained.

It is necessary, first, that a man of absolute and unquestioned honesty be Superintendent of Charities. It is then vital that this man be one imbued with the spirit of human kindness, a man who sympathizes with suffering and misfortune, a man who can lean over the bed of suffering humanity and spare neither

time nor effort to make the lot of those over whom he has charge as comfortable as may possibly be done with the means furnished by the City Government.

I have given to this position, gentlemen, I believe, more thought than I have to any other place in the public service. After many hours of reflection I have chosen a man for this position possessing all the attributes that I have herein indicated in my opinion to be requisite to a first-class public servant in this position. The man whose name I shall send to you is blessed with a wife of splendid Christian character, a noble, kindly, sympathetic woman, who will assist him in laboring for the alleviation of the poor and suffering of the City.

Under his management I am fully satisfied that every dollar that we may take from the taxpayer for the benefit of the poor of Lowell will be honestly expended, and will yield in return the fullest results that can be achieved by hard work, integrity, shrewd business judgment, and constant sympathy and affection. I do not cherish the least doubt that when his name is submitted to you it will be confirmed without delay.

During our terms of service there may be places where we fail. When our work is over, we may regret that we have in some particular not done better than we shall have done. I sincerely trust, for myself and for you, gentlemen, that when our work here is finished we will not have cause to upbraid ourselves that any poor, unfortunate person, under the Charity Department of this City, has had one increased sorrow or one moment of anxiety, or one hour of distress, through any failure on our part to do our fullest duty.

If we should be so unfortunate as to look back on some failure in this respect we will indeed be un-

happy. It is difficult to say who, in our City's life, may in the closing days be compelled to ask the City's charity, and if it ever be the lot of any of us, let us have the added consolation that when we were in the possession of power, we did not, for one moment, fail in our duty to those who are unable to provide and care for themselves in the dark hours of life.

Those who have been long in office naturally desire to remain, regardless of the public demands or the public interest. Many of them are familiar with every twist and turn of politics, and it is to be expected that they will exhaust every resource to prevent the confirmation of their successors. But your duty, gentlemen, is to the people, and the people look to you, and I have full faith and confidence in you, and I sincerely believe that you plan to work with me in sincere cooperation for the City's benefit.

Public Transportation

The transportation afforded the public by the local Street Railway Company is unfit and in many respects flagrantly abusive of the public. With all due recognition of the financial and other troubles of this street railway system in the past few years, the fact remains that the public have certain indisputable, paramount rights, and that transportation below certain standards is not to be tolerated.

The service rendered the people of Lowell on the busy lines during rush hours has caused serious complaint, and it is my purpose to exhaust every power under the law to compel the Street Railway Company to render better service on the busy city lines during all the rush hours of the day.

I do not believe it proper or safe, nor decent public service, to have the large cars used by this company manned with one man on busy lines during rush hours, and packed to a capacity that is annoying and inconvenient, and in some respects almost indecent.

I shall, early, send a communication to the Street Railway Company demanding that conditions herein indicated as unsatisfactory be corrected, and failing in proper action of a remedial nature, I shall exhaust every remedy that this City has under the laws of the Commonwealth to compel the giving to our people of reasonable, decent and convenient transportation.

Unemployment

The uncertain condition of employment prevails in Lowell as well as in other places throughout the country. Fortunately, however, we have felt the prevalent depression less perhaps than any other municipality. To this extent God has blessed us. The condition, however, existing is grave, and no City Government would be true to the people, that failed to recognize existing conditions, and to earnestly attempt to alleviate them. The situation requires some thought and study by men fitted by training and experience to understand it.

My predecessor in office appointed a committee to give this matter consideration. Undoubtedly this committee, appointed by my predecessor, has met and given this grave problem some consideration. I shall augment the committee already appointed by requesting three men to join with them and share in their deliberations and efforts. I shall ask two well-known clergymen of different faiths, and a capable workingman from the ranks of organized labor to serve with them.

If the committee desires an increase in its membership I shall ask them to so inform me. If they need an appropriation for investigation or other necessary expenditures to make their work effective, I will recommend at once to the Government that such an appropriation be made; and when I have had an opportunity to confer with them and study what has been done, and what may be accomplished I shall ask them at the earliest possible date to send me a report which I shall immediately submit to the City Government.

The winter is upon us, with all its suffering, and I believe one of our first duties is to make every element of our people realize the necessity of immediate, prompt and effective action that any suffering that may exist in the City through unemployment may be reduced to a minimum as befits a Christian People.

It may be that I shall ask this committee, if it be necessary that the public more thoroughly be informed of conditions, to call a public meeting where members of the committee may address the people of the City and thus attempt to get the whole City working in a spirit of splendid co-operation to relieve any suffering that may exist.

Industrial Conditions—Tax Rate and Public Expenditures

Every dollar raised by taxation comes in the final analysis from the people. The consumer, the rent payer, the home owner, the business man, store keeper, manufacturer, merchant, and the corporation, large or small, all share to some extent this burden. For a brief period the City enjoyed war prosperity; labor was in great demand and wages very high. Conditions have changed;—labor is unemployed, and

wages in many private industries have been severely cut. But the standard of public expenditures, set by the Government in the midst of war prosperity still remains.

Our people do not realize perhaps that in about two years, from January, 1919, to the present time, the expenditures of the City for general city administration and current expenses were increased in the vast sum of one million, five hundred and fifty-four thousands of dollars, and added to that are other large sums represented in appropriations which I shall not here specify.

This Government faces that standard of City expenditures set by our predecessors in office. The thoughtful people of the City can see the problems that we face. The tax rate has been raised to the alarming figure of \$31.40 per thousand. The present City Auditor, in a public statement given to the press within the past few weeks, has said that there must be a large increase in the tax rate for the coming year, regardless of whom may be in office.

The mere increase in the tax rate would not be so onerous were it not for the fact, often overlooked, that underlying it there has been the enormous increase in valuation of nearly thirty millions of dollars since January, 1919, so that if the City were living under the valuations of 1918 the tax rate now would be approximately \$42.00 per thousand. It makes no difference how the money is taken from the people, whether it be in increased tax rate or in valuation, the people nevertheless pay.

I ask every thoughtful citizen in the City who may read this portion of my Inaugural Address, to give it careful thought and study. There is a limit to the en-

duration of the people under taxation. In addition to the heavy City taxation the people are now subjected to a State Income Tax which weighs heavily on many, and on top of that is the Federal Income Tax, also a heavy burden.

Our people are groaning under taxation. The industries of the City, which are the life of the community, are feeling the enormous pressure of taxation from every quarter. Any man in this Government who fails to realize the grave responsibilities that confront us in the incurring of debt, and the expenditure of money that must be taken from the people, is unworthy of the honor that has been conferred upon him by the Electorate.

I hope to find you, gentlemen, one and all, a body of thoughtful men who at every juncture will consider the fact that every dollar that we spend must be taken by taxation from the inhabitants of a community under a business depression, and who are already burdened with taxes from the Commonwealth and from the Federal Government.

Finance and General Recommendations

From time to time in an executive manner I will indicate to the City Council my ideas and plans concerning the City's finance. At this time, however, some general suggestions may well be considered.

I believe that in the beginning of the year all expenditures, so far as possible, should be anticipated and systematically planned for, and that this policy, once adopted, should be rigidly adhered to, and departed from only in the face of the sternest public necessity. Our expenditures should be looked forward to and anticipated, and provided for, and when this has been

done we should not allow too constant pressure for newly suggested alterations or improvements, to change the adopted policy.

If this policy is continued for a time it will begin soon to lessen our great municipal burdens. The policy which has been adopted and which is a financial fallacy, produces vicious results, for various departments of the Government, in the middle of the year begin to yield to pressure for expenditures not contemplated at the beginning of the year, and to transfer money from the general treasury to some department at that time. This expenditure is not honest finance. I intend to see that the City is given an administration of honest finance, and truthful bookkeeping.

There will be no political finance, and there will be no campaign bookkeeping. Discount loans of a temporary nature in anticipation of taxes should be floated with the City paying the discount from its own funds, and not permitting the discount to be taken from the loan.

I have always advocated this policy, as have some other executives, but it has been difficult of accomplishment. Under the able administration of Mayor Peters it has been adopted in Boston, and I intend to see that it will be adopted here. If necessary, a fund must be supplied and kept on hand to pay discounts so that a loan for a given sum, say one hundred thousand dollars, will bring into the City Treasury the exact sum authorized in the loan.

I shall personally give constant oversight to the City's financial affairs. All of the departments have closed the year short of money, and some of the departments are in bad financial condition. It would be

useless and perhaps ungenerous at this time to point out the particular spots in the City's financial affairs that call for immediate attention on our part. I shall, however, in formal communications to you from time to time, call your attention to existing conditions and make certain suggestions concerning the City's finances. These communications, given to the people, will tend to make our people conversive with the financial condition of the City, and if they are discussed at your meetings, and these meetings are reported, further public knowledge will be had.

Conclusion

Gentlemen of the City Council, the opportunity for service is ours. Much is expected of us; but with patience, thoughtful application to our tasks, much can be accomplished. I have learned in my political career that the public is very grateful for any service rendered.

I ask for myself and for you, gentlemen, the aid and assistance of the public, that we may be given strength. I know we will welcome their advice. I trust no part of the people, without cause, will withdraw from us their support and assume an attitude of criticism. The tasks that we are to perform are for the benefit of all the people, without regard to politics, race, creed or social position.

For myself and for you, I ask the kindly wishes and the prayers to God of all the people, the men, the women and the little children, that we will be guided by Him to do the right.

GEORGE H. BROWN, Mayor.



Ninety-Sixth Annual Report
OF THE
School Committee
OF THE
CITY OF LOWELL
AND THE
Fifty-Eighth Annual Report
OF THE
Superintendent of Public Schools
1921



BUTTERFIELD PRINTING CO.
LOWELL, MASS.

CITY OF LOWELL

Office of the School Committee,
Lowell, Mass., March 28, 1922.

At a meeting of the School Committee, held on this date, it was voted to adopt the report of the Superintendent of Schools for 1921 as the report of the School Committee for that year and to authorize the printing of the report.

In accordance with this vote the report is herewith submitted.

HUGH J. MOLLOY,
Secretary.

ORGANIZATION

OF THE

School Committee

1921

THOMAS B. DELANEY, Chairman
HUGH J. MOLLOY, Secretary

MEMBERS

	Term Expires
ALBERT BERGERON	1921
Res. 35 Mt. Vernon St.	
THOMAS B. DELANEY	1921
Res. 92 West St.	
EDWARD J. DONNELLY	1921
Res. 14 Ames St.	
JAMES E. MARKHAM	1921
Res. 12 Burns St.	
JAMES C. WARNER	1921
Res. 71 Pine St.	

REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 25	May 31	September 27
February 22	June 28	October 25
March 29	July 26	November 29
April 26	August 30	December 27

ADMINISTRATION**Superintendent of Public Schools****HUGH J. MOLLOY**

Office in City Hall

Office Tel. 2728. Home Tel. 3121.

Office Hours—One hour after the forenoon session of the schools;
at other times, including Saturdays, by appointment.

Clerks**FANNIE A. THOMPSON**

Home Tel. 1066

KATHARINE L. CARMICHAEL

Business Agent**HENRY L. WILLIAMS**

Office Tel. 2727. Home Tel. 2714.

Clerk in Business Agent's Office**LEDA C. LAMONTAGNE**

Office in School Supply Room, City Hall

Stock-keeper**FREDERICK JOHNSTON**

Office hours for Supply Room:

8 a. m. to 5 p. m.

Supervisor of Janitors**WILLIAM F. THORNTON**

Office Tel. 3960 Home Tel. 3423

Attendance Officers

William F. Thornton, Camille Roussin, George F. Lee, Mary H. Downey

Clerk in Attendance Office**STELLA G. MOLONEY**

Office—Third Floor of City Hall

Office Hours—9 to 4 o'clock daily, except Saturday;
Saturday 9 to 12.30 o'clock.

ORGANIZATION

OF THE

School Committee

1922

JAMES H. RILEY, Chairman
HUGH J. MOLLOY, Secretary.

MEMBERS

	Term Expires
THOMAS B. DELANEY	1923
Res. 92 West St.	Tel. 4942
ANNIE D. DONOVAN	1923
Res. 10 Shaffer St.	
Bus. 146 Fletcher St.	Tel. 62
MAURICE J. LAMBERT, JR.	1923
Res. 342 Westford St.	Tel. 4229-J
Bus. 69 Central St.	
PATRICK J. MEEHAN, M. D.	1923
Res. 282 Appleton St.	Tel. 543
J. EUGENE MULLIN	1923
Res. 6 Bleachery St.	Tel. 4785-M
Bus. 53 Central St.	
ALICE F. D. PEARSON	1923
Res. 69 Clitheroe St.	Tel. 2479
JAMES H. RILEY	1923
Res. 39 Methuen St.	Tel. 257-J.
EMMA E. YOUNG SLAUGHTER, M. D.	1923
Res. 545 School St.	Tel. 249
CORNELIUS J. SULLIVAN	1923
Res. 44 Corbett St.	

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REPORT OF THE Superintendent of Schools

Office of the Superintendent of Schools.
Lowell, Mass., 1921.

To the School Committee of Lowell:

The following report, for the year 1921, is respectfully submitted.

SUMMARY OF STATISTICS.

Valuation of City	\$128,600,023.00
Valuation of school property	3,097,875.00
Rate of Taxation, \$31.40 per \$1000.	
Expenditures for Day Schools	1,071,445.79
Expenditures for Evening Schools and Americanization	51,795.70
Day School expenditures to total valuation .....	.833 per cent.
Day and Evening School expenditures to total valuation .....	.873 per cent.
Population (Board of Health figures)	112,759
Number of polls	31,273
Number of Public Day Schools	61
One high, thirteen grammar, thirty primary, two mixed, fourteen kindergartens and one continuation.	
Number of school buildings	49
(Not including seven one-room portable buildings.)	
Occupied by public schools, 47; occupied by vocational schools, 2.	
Elected teachers, Dec., 31; on leave 6; in service, 400, total 406.	
Permanent substitutes	28
Subdivisions of Elected Teachers in service:	
High, 20 men, 48 women; Grammar, 9 men, 171 women; Primary, 94 women; mixed, 5 women; Kindergarten, 23 women; Continuation, 7 men, 6 women; Drawing, 2 women; Music, 1 man, 2 women; Sewing, 4 women; Manual Training, 2 men; Supervisor of Primary Grades, 1 woman; Physical Instructors in Elementary Schools, 2 men, 3 women.	
Teachers in Evening Schools, counting principals, term of 1920-1921	71
Pupils enrolled in Evening Schools, term of 1920-1921	2,262
High 1276; Elementary 986.	

Whole number of pupils enrolled in Day Schools, 1920-1921	13,266
High, 1715; Grammar, 6344; Primary, 4330; Mixed, 186; Kindergarten, 691.	
Average number belonging to Day Schools, 1920-1921	11,822
High, 1602; Grammar, 5779; Primary, 3806; Mixed, 164; Kindergarten, 471.	
Average attendance, 1920-1921	10,978
High, 1554; Grammar, 5429; Primary, 3469; Mixed, 148; Kindergarten, 378.	
Average per cent. of attendance, 1920-1921	
High, 97; Grammar, 93.7; Primary, 91.1; Mixed, 90.2; Kindergarten, 80.2.	
Average membership for year ending December, 1921	12,240
High, 1776; Grammar, 5977; Primary, 3805; Mixed, 178; Kindergarten, 504.	
Number of school rooms in actual use in June, 1921	325
High, 50; Grammar, 154; Primary, 101; Mixed, 5; Kindergarten, 15.	
Number of school rooms in actual use in December, 1921	347
High, 57; Grammar, 167; Primary, 103; Mixed, 5; Kindergarten, 15.	
Average number to each room for year ending June, 1921	
High, 32; Grammar, 37; Primary, 37; Mixed, 33; Kindergarten, 31.	
Average number to each room for year ending December, 1921	
High, 31; Grammar, 35; Primary, 37; Mixed, 35; Kindergarten, 33.	
Average cost of each pupil for tuition only, based on average number belonging	
High, \$84.93; Grammar, \$57.44; Primary and Mixed, \$45.80; Kindergarten, \$69.46.	
Average cost per pupil based on the average number belonging, and on the total expenditures for tuition, janitor service, medical inspection, supervision, supplies, fuel and all incidentals	82.88

VOCATIONAL SCHOOLS

- Boys: Buildings, 1; rooms, 13; teachers, 12; pupils enrolled, 195; average number belonging, 165; average number attending, 151; per cent. of attendance, 91.
- Girls: Buildings, 1; rooms, 6; teachers, 7; pupils enrolled, 126; average number belonging, 110; average number attending, 95; per cent. of attendance, 87.

RECEIPTS AND EXPENDITURES

Expenditures

Appropriated and Assessed in 1921	\$1,123,241.49
Amount Disbursed	1,123,241.49
Returned to general treasury	

Teachers of Day Schools:

High School	\$ 136,059.69
Grammar Schools—Bartlett	\$37,537.53
Butler	27,646.14
Colburn	15,848.15
Edson	18,999.08
Green	18,355.38
Greenhalge	20,415.14
Lincoln	21,571.50
Moody	17,329.49
Morey	43,720.98
Pawtucket	17,484.26
Riverside	7,303.91
Varnum	26,221.66
Washington	20,682.98
	\$293,116.20

Primary and Mixed Schools	\$ 162,248.49
Kindergartens	32,717.50
Special Teachers	28,146.15
Substitutes	30,525.00

Total paid for instruction in Day Schools	\$ 682,813.03
Summer Schools	\$ 475.00
School Physicians, Dentist and School Nurses	10,100.00

Janitors:

Janitors of Day Schools	100,075.47
Pensions	844.68
Repairer of Furniture	1,500.00

Evening Schools:

Teachers, High and Elementary Schools	20,718.50
Janitors	4,276.71
	\$ 137,990.36

Continuation School		\$ 28,499.73
Americanization:		
Teachers	\$ 9,078.50	
Janitors	822.00	
	<hr/>	\$ 9,900.50
Cost of Supervision:		
Supervision of Schools	\$ 5,000.00	
Office Assistants	2,520.67	
Business Agent	3,100.00	
Stock-keeper	1,600.00	
Clerk in Supply Room	1,200.00	
Attendance Officers (four)	8,840.83	
Clerk in Attendance Office	1,200.00	
	<hr/>	\$ 23,461.50
Vocational School Teachers and Janitors	\$ 66,067.21	
Total Salaries, Vocational Schools omitted	882,665.12	
Total Salaries, Vocational Schools included	948,732.33	

Expended for bills for the year 1921:

Coal	\$ 39,244.88
Wood	586.00
Water	4,604.51
Board of Truants	1,689.43
Electricity	3,621.84
Gas	4,707.81
General Repairs	2,365.45
Electrical Repairs	3,866.37
Furniture	7,278.64
Books	19,952.68
Paper and Supplies	19,758.77
Printing	4,167.39
Manual Training	2,640.85
Janitor Supplies	5,385.61
Apparatus	984.70
Dental Supplies	350.62
Medical Supplies	603.85
Cooking, Etc.	4,499.02
Material for Sewing	1,100.52
Autos	6,599.20
Graduation	582.33
Regiment	774.58
Telephones	975.71
Transportation	1,050.00
Miscellaneous	154.36
Appropriation Transfers	6,014.38
Continuation	3,276.62

Physical Training	1,560.93	
Sight Saving	24.49	
Expense of School Committee	777.26	
Typewriters	1,381.37	
Rents	2,040.34	
Americanization	20.00	
Kindergartens	1,013.02	
Summer Schools	116.16	
<hr/>		
Total		\$ 153,769.69
Bills, Vocational School	20,739.47	
Total of Bills, Vocational School included	174,509.16	
Salaries and Bills, Vocational School omitted	1,036,434.81	
Salaries and Bills, Vocational School included	1,123,241.49	
Analysis of Vocational Expense:		
Salaries of Day Teachers	\$ 42,261.75	
Janitors of Day Schools	3,100.00	
Salaries of Evening School Teachers	14,313.99	
Janitors of Evening Schools	2,586.00	
Smith-Hughes Fund	3,805.47	
<hr/>		
Total of Salaries		\$ 66,067.21
Equipment and Supplies		20,739.47
<hr/>		
Total Expenditures for Vocational School		\$ 86,806.68

Receipts

The receipts by the general treasury on account of the school department during the year were as follows:

Vocational School:		
Smith-Hughes Fund	\$ 3,737.47	
Reimbursement	22,978.02	
Tuition	9,633.16	
All Other	45.50	
General:		
Tuition	15,445.53	
Massachusetts School Fund	72,791.40	
Americanization	5,638.36	
Sight Saving Classes	500.00	
Total		\$ 130,769.44
<hr/>		
Expenditures by Public Property Department		\$ 47,616.19

RECEIPTS AND EXPENDITURES

(Discussion)

The total amount expended in 1921 was \$1,123,241.49; the amount for the year 1920 was \$945,687.17. The increase for the year was \$177,554.32.

A new salary schedule went into effect in January, 1921, and consequently the expenditures for the year 1921 show a marked increase over the expenditures for 1920; however, the salaries in Lowell are not unduly high in comparison with salaries in cities of our own class.

The large items of increase during the year are as follows: Supervision, including clerks and attendance officers, \$3,524; high school salaries \$20,385; grammar school salaries, \$56,437; primary and mixed school salaries, \$18,865; kindergarten salaries, \$8,793; special teachers, \$5,148; substitutes, \$6,098; continuation school (first full year) \$16,602; evening schools, \$1,768; physicians, dentist and nurses, \$2,300; vocational school, \$21,723; bills, \$13,474.

The increased per capita cost for tuition alone in 1921 over 1920 was as follows in the different grades of schools: high, \$10.21; grammar, \$11.09; primary and mixed, \$6.33; and kindergarten, \$11.40. The cost per capita in the schools, based on average number belonging and on expenditures of every kind was \$71.49 in 1920 and was \$82.88 in 1921.

The city received on account of the school department various sums listed on page 11; which total \$130,769.44; therefore the net expenditure by the School Committee for the year 1921 was \$992,472.05.

The item of reimbursement from the Massachusetts school fund is made up from an allowance of \$200 for every teacher's salary which was not less than \$850.

SCHOOL CENSUS

The following data was obtained from the census of 1921 :

	Males	Females	Total
(a) Five years of age or over and under seven	1,973	2,061	4,034
(b) Seven years of age or over and under fourteen	7,073	7,421	14,494
(c) Fourteen years of age or over and under sixteen	1,706	1,787	3,493
Total	10,752	11,269	22,021

The law prescribes that every child between the ages of seven and fourteen years shall attend school during the entire time the public schools are in session. If a child has not completed the work of the sixth grade he must attend school until he is sixteen years of age and if he is not employed in useful occupation he must attend school until he is sixteen years of age, regardless of the grade he may have reached in the schools. Every employed child who is less than sixteen years of age must attend continuation school for a period of at least four hours a week.

The attendance officers do much to secure the attendance of children at school but, notwithstanding their efforts, there are many children in Lowell who are not sent to school with the regularity which the laws contemplate.

SCHOOL HOUSES

The addition to the Morey school was completed and ready for occupancy at the beginning of the new school year in September. The addition to the building gave fourteen new rooms and a hall. When the addition was asked for, however, the request of the department was for eighteen rooms and we know now that there should have been an addition of twenty or twenty-four rooms. This building is to be used for a Junior High School center and it will be necessary in the near future to add to its present accommodations. During the year, also, a building of bungalow-type has been in process of construction for the use of the Household Arts department.

We have been using throughout the year seven portable school buildings, three at the Washington, two at the high, one at the Edson and one at the Varnum.

The new high school will be ready for occupancy at the opening of schools in September, 1922, and we shall then have for the first time in twenty years adequate accommodations for our very large and important high school. This school has been planned large enough to meet the needs of the city for a number of years and the development of junior high school centers will defer the crowding of the new and enlarged high school for the reason that the junior high school organizations will greatly reduce the size of the freshman class in the high school.

During the year the Committee considered the advisability of calling in experts from outside to make a survey and give suggestions as to the future development in building schoolhouses. Nothing definite, however, has been done as yet but something should be done so that we may have definite and comprehensive plans to provide for the building development for the next twenty years.

It is only repeating what has been said many times and what everybody who is familiar with the situation knows to state that there should be a modern and commodious building erected in place of the Edson school; the needs of this large and important district require such a building and have required it for a long time.

RESIGNATIONS, ELECTIONS AND RETIREMENTS.

The following lists give the changes in the roll of teachers and other employees, due to elections, resignations and retirements.

Resigned

Fred Albinson	High School
Marion E. Green	Principal, Grand Street School
Clara B. Horne	Principal, Dover Street School
Beatrice Shea Knowles	Elementary
Esther Elliott Leggat	High School
Mary Seery McDermott	Elementary

Lewis A. Putnam	Evening High School
Edna J. Rundquist	Vocational School
Evelyn L. Staples	Kindergarten Teacher
Edward J. Thompson	High School

Elected

Jessie M. Agnew	Elementary
Jennie M. Bennett	Principal, Grand Street School
Georgia L. Blaisdell	Teacher of Drawing
Catherine G. Boddy	Elementary
Clementine H. Bowers	Principal, Dover Street School
Margaret F. Bruin	Elementary
Charles J. Burns	Janitor
Mary J. Campbell	Elementary
V. May Carlson	Elementary
Helen A. Castles	Elementary
Cecil Chase	Temp. Sub. High School
Mildred M. Clevette	Elementary
Henrietta G. Condon	Elementary
Martin R. Connors	Perm. Sub. High School
Edward B. Cornell	High School
William J. Craig	Lineman
Helen M. Crowley	Elementary
Robert Derbyshire	Vocational School
Alice K. Dinneen	Elementary
Joseph M. Donoghue	Temp. Teacher, High School
William A. Donovan	Temp. Teacher, High School
Irene H. Dowd	Elementary
Mary Durant	Janitress
Kathryn H. Flahavan	Elementary
Jennie T. Frawley	Elementary
Loretta V. Gardner	Elementary
Helen R. Gilbride	Physical Instructor, Elementary
Ethel D. Gordon	Elementary
Mary Hassett	Janitress
Alice B. Ingham	Elementary
Walter R. Jeyes	Physical Instructor, Elementary
Georgianna P. Keith	Elementary
Annabelle V. Keyes	Elementary
Adah S. Keyworth	Vocational School
George F. Lee	Attendance Officer
Agnes L. Liston	Vocational School
Teresa G. Lew	Elementary

Donald R. MacIntyre	Supervisor and Director of Physical Education
Anna Lee Maguire	High School
Mary R. Maguire	Elementary
Marion A. McCarthy	Vocational School
Alice M. McDermott	Elementary
Madeline McDonald	Vocational School
Agnes A. McGowan	Elementary
Louise H. McKenna	Perm. Sub. High School
Marion E. McMaster	Elementary
Natalie H. McQuade	Elementary
Gladys Mevis	High School
Andrew J. Moynihan	Vocational School
M. Alice Murphy	Elementary
Helen C. O'Hare	Elementary
Elsie E. Perron	Elementary
Minnie L. Pihl	Elementary
Helen G. Pollycutt	Vocational School
Helen M. Regan	Vocational School
Anne V. Reynolds	High School
James P. Roane	Physical Instructor, Elementary
Anna H. Rouine	Elementary
Hildegard I. St. Onge	High School
Olga Shay	Physical Instructor, Elementary
Emma Young Slaughter	School Physician
Hazel Stevens	Elementary
Harry M. Tabor	Vocational School
Charles E. Thornton	Custodian, High School
Helen M. Whitcomb	High School
Etheldred Willmott	Perm. Sub. High School
Rachel Woodworth	High School

Reinstated

Agnes Coburn Allen	Kindergarten
Mary Cassidy Cunningham	Elementary
Annie T. DeLay Curley	Elementary

In Memoriam

Michael J. Lynch

Head-Janitor in the High School

M. Alice Murphy

Teacher in the Lincoln School

Laura H. Palmer

Teacher in the West Sixth Street School

Belle A. Prescott

Teacher in the Bartlett School

John J. Walker

Attendance Officer

PUPILS BY GRADES

The following table shows the number of pupils in the schools, according to grades:

	Males	Females	Total
Kindergartens	262	268	530
Special	61	38	99
Grade 1	780	796	1576
Grade 2	606	584	1190
Grade 3	586	577	1163
Grade 4	704	628	1332
Grade 5	594	588	1182
Grade 6	628	575	1203
Grade 7	508	522	1030
Grade 8	417	366	783
Grade 9	351	326	677
Grade 10	319	396	715
Grade 11	275	267	542
Grade 12	171	244	415
Grade 13	117	151	268
Grade 14	22	19	41
Total	6401	6345	12746

HIGH SCHOOL

The High School graduated a class of 296 in June and there was an entering class of 598 in the September previous. Of this class 386 were from the public schools, 119 from private schools, 64 from towns which have certificate privileges, 6 entered by examination and 23 came from out-of-town schools.

The grammar school sent 83% of graduates, who were certified, to the High School; the average age of the entering class was 14 years.

The graduation exercises were held in Keith's Theatre on June 22; the names of the Carney Medal students, and the names of the students who were awarded honorable mention are here given.

CARNEY MEDALS

Hannah Mabel Adams	William Hill McCann
Catherine Agnes Sullivan	Arthur Joseph Riley
Doris Alexander	Wyllis Eaton Wright

HONORABLE MENTION FOR SCHOLARSHIP

Helen Battles Sawyer	Dorothy Baker Hill
Almira Blanche Kenney	Doris Evelyn Wilson
Louise Charlotte Drew	Doris Mona Carey
Edith Marie Bernston	Leola Mary Handley
Evelyn Gertrude Hyde	

HONORABLE MENTION FOR ATTENDANCE FOR FOUR YEARS

Harold Milton Berry	Helen Mary Barrett
Raymond Edward Donovan	Doris Acorn Fraser
Andrew Douglas Brown Peverill	

FOR THREE YEARS

Mary Frances Donoghue

MEDICAL AND DENTAL SUPERVISION

The health of the children in the public schools is supervised by nine physicians and four nurses, all being under the control of the school department.

The Board of Health employs four physicians for the private schools and their names and the schools they supervise are given below.

- Dr. F. P. Murphy**—Immaculate Conception, St. Peter's School and Orphan Asylum, St. Stanislaus.
- Dr. R. C. Stewart**—Our Lady of Lourdes, St. Louis's, St. Patrick's for Boys, St. Patrick's for Girls, Notre Dame Academy.
- Dr. H. B. Plunkett**—Greek Orthodox, St. Michael's, St. Marie's, Mrs. Paxton's Private School, Sacred Heart.
- Dr. Migneault**—St. Joseph's for Boys, St. Joseph's for Girls, St. Joseph's Pawtucketville, St. Joseph's Kindergarten.

The names of the school department physicians and the schools they supervise are given in the directory pages of this report.

The school department maintains a dental room in the Worthen Street School, located on Worthen between Market Street and Broadway. The room is open on all school days, including days when the storm signal is sounded, from nine until twelve in the forenoon and service is free for any child from any school, public or private, for whom an appointment has been made; appointments are made by school physicians, nurses, teachers and Miss Lantagne, the dentist's assistant.

The following summary of work done during the year in the clinic is submitted:

Dental Clinic report from January 1 to December 31, 1921:

Amalgam fillings	316
Cement fillings	91
Temporary cement fillings	9
Extractions	1034
Treatments	56
Toothaches treated	40
Cleanings	720
Children	807

SCHOOL NURSES' REPORT FROM JAN., 1921 to JAN., 1922

Number of visits to schools	2,476
Number of pupils examined	10,270
Number of pupils re-examined	18,714

Number excluded from schools:

Elevated temperatures	48
Desquamation of hands	9
Chicken-pox	149
No vaccination mark	148
Pediculosis	445
Scabies	58
Ring Worm	8
Sore throats	85
Impetigo	152
Nauseated	4
Eczema	6
Rash	15
Bronchitis	2

Unclean	7
Septic arm	1
Ivy rash	2
Measles	25
Mumps	14
Whooping cough	5
Chronic appendix	1
Scarlet fever	2
Contagion found in family	39
Iritis	1
Acute nephritis	1
Angina	1
Body lice	1
Scalp wound	1
Herpes	1
Cough	1
Wet shoes and stockings	1
Laryngitis	5
Pleurisy	1
Earache	2

CONTAGION FOUND IN SCHOOLS:

Scarlet Fever	2
Mumps	14
Scabies	48
Chicken-pox	5
Measles	18
Whooping cough	5
Returned improved	979
Unimproved still absent	83
Tooth brushes sold	12 gross
Notices of defects sent to parents	7,635
Personal letters written	73

DEFECTS FOUND:

Decayed teeth	3,737
Defective nasal breathing	3
Enlarged tonsils	1,744
Sore throat	679
Pediculosis	1,723
Colds	598
Impetigo	357
Eczema	60
Epistaxis	1

Cat bite	1
Neuritis	6
Chronic appendix	6
Chorea	6
Contusion of ear	3
Foreign body in cornea	2
No vaccination mark	58
Enlarged cervical glands	152
Abscess on face	2
Abscess in axilla	4
Otitis media	21
Bronchitis	4
Burned hands	2
Alopecia	4
Ring worm	10
Unclean	753
Blister on hand	2
Hordeolum	29
Malnutrition	43
Saborrhea	1
Homiplagia	1
Rash	29
Abscess at root of tooth	24
Frost bite of toes	1
Fallen arches	3
Eye strain	157
Eneuresis	2
Burns of arm	4
Infections and lacerations	558
Furuncle	101
Tonsilitis	15
Blepharitis	43
Sprains	26
Earache	28
Conjunctivitis	29
Headache	15
Abscess on finger	1
Stribismus	19
Simple fracture of arm	3
Anemia	53
Desquamation	3
Abscess on head	2
Orthopedic defects T. B.	7
Orthopedic defects non T. B.	23

Adhesion of check to gum	3
Favis	1
Constipation	3
Congenital paralysis	1
Enlarged turbinated bones	1
Catarrah	4
Syncope	8
Defective hearing	11
Rickets	3
Functional hearts	23
Organic hearts	83
Laryngitis	10
Epileptic	2
Herpes	21
Otitis media	1
Rheumatism	4
Kidney trouble	8
Anterior staphylema	8
Pharyngitis	6
Nausea	4
Defective speech	1
Hemorrhoids	1
Croup	1
Corneal ulcer	5
Warts	10
Indigestion	10
Swollen jaw	2
Fractured clavicle	2
Peritonsular abscess	1
Foreign body in eye	1
Refractory error	1
Ecchymosis of eye	11
Occluded tear duct	1
Myopia	2
Shingles	2
Curvature of the spine	2
Bladder trouble	4
Dog Bite	2
Growth on face	3
Defective walk	4
Deviated septum	8
Chalazion	1
Seats too high in class room	5
Pulmonary disease	2

Acne	15
Tonsillitis	13
Cleft palate	1
Rhinitis	11
Paronychia	2
Canker	2
Wen	1
Cerumen	1
Dysmanorrhea	1

TREATMENTS :

First aid in schools	994
Consultations with teachers	5,838
Pupils advised	18,577
Home visits (new)	569
Home visits (old)	145
Hygiene talks in schools	1,435
Instruction in homes	614
Pupils treated at dental clinic	665
Pupils treated by family dentist	286
Pupils treated by family physician	166
Tonsils and adenoids removed	664
Treated by oculist	68
Corrected vision (glasses)	51
Tooth brush drills	119
Hospital clinics attended	753
Pupils weighed and measured	317
Classes in home nursing	107

Co-OPERATING AGENCIES :

Massachusetts Commission of the Blind
Tuberculosis nurse
Board of Health
Miss Skilton
Lowell Guild
Police Court
Truant officer
Corporation Hospital
Social Service League
International Institute
Charity Department
Lowell Humane Society
Home for Feeble Minded Children (Waverly)
St. John's Hospital
Children's Hospital (Boston)
New England Baptist Hospital (Boston)
Clothing and shoes donated

SIGHT AND HEARING TESTS

	Pupils Examined	Defective Sight	Per Cent Defective	Defective Hearing	Per Cent Defective	Parents Notified
High	1952	118	.06	4	.002	122
Grammar	6256	891	.14	120	.019	803
Primary	4032	354	.87	56	.13	298

SCHOOL SAVING BANKS

The school savings account is printed below :

	Deposits Dec. 31, 1920	Deposits Dec. 31, 1921
Bartlett	\$ 2,029.37	\$2,567.28
Edson	2,329.45	2,034.56
Charles W. Morey	3,944.20	2,234.25
Varnum	2,554.38	1,623.51
Washington		477.76
	<hr/> \$11,335.16	<hr/> \$8,459.60

VOCATIONAL SCHOOL

The eleventh year of the school opened with an enrolment of two hundred and twenty-five boys and one hundred and forty-three girls. The only requirement for admission to the day classes of the Vocational School as far as age is concerned is that a pupil must not be less than fourteen and not more than twenty-five years of age.

All pupils must be residents of the state; for pupils who do not reside in Lowell there is a tuition charge of \$200.00 for boys and \$190.00 for girls payable by the city or town of the non-resident pupil, as the school is absolutely free to the individual pupil, regardless of his place of residence.

The work is so arranged that a boy may enter at any time and advance as rapidly as his industry and ability will allow.

The school offers preliminary training for boys as carpenters, electricians, cabinet-makers, machinists and automobile repairers.

The boys are trained mostly on productive work in all departments and the work is of such a practical nature that they fit naturally into the industry in advanced apprenticeship standing.

All the courses are planned for three years, seven hours a day, five days a week.

The courses are divided into three phases consisting of about one year's work in each. Upon the satisfactory completion of any phase a certificate is given.

If a boy gets three certificates and works at the trade for which the school has trained him, he is entitled to a diploma.

The courses have been run on a weekly schedule as follows: Shop Science, one-half day; Academics, one day; Mechanical Drawing, one-half day; Physical Exercise, two hours, the time taken as far as possible from the time allotted to related work; the remaining two and one-half days are spent on practical work in the shops.

The number of boys increased to two hundred and twenty, necessitating the continuation of the use of two additional rooms at the Worthen Street School. With large second and third year classes returning next September the outlook is for still more crowded conditions. Owing to this condition about one hundred and thirty boys were turned away at the opening of the present school term.

The equipment is as follows:

Machine Shop:—

4 milling machines, 1 universal, 3 shapers, 3 drills, 1 planer, 2 power saws, 1 grinder, 24 engine lathes, 2 speed lathes, and other small tools and accessories.

Electrical Shop:—

7 direct current motors, from 1 to 10 HP., 4-3 phase generators. 2 motor generator sets, 1 rotary converter, 9 to 3½, 1 Tungar Rectifier, 1 metal shear, 1 winding head, 3-2 KW. transformers, measuring instruments and small tools.

Carpentry Shop:—

1 buzz planer, 1 cylinder planer, 1 combination and one single saw bench, 1 band saw, 1 turning lathe, 20 sets of carpenter tools, benches and auxiliary tools.

Automobile Department :—

1 Ford car (rebuilt), 1 Maxwell car, 1 Studebaker runabout, 1 N. E. Motor generator, 5 auto engines for instruction purposes, 3 starting and lighting systems, Ford-Delco, North Eastern, 1 N. E. Dynamotor, 1 battery charger, 1 battery steamer, wrenches, pliers, jacks, etc., for general repairs, 1 storage voltmeter, 1 electric testing instrument.

GIRLS' DEPARTMENT

Morrill School, Common St., Opp. North Common

(Free to all pupils living in the State of Massachusetts)

This school aims to prepare the girls of Lowell and surrounding towns for life's activities and duties; to give them a training in the branches of knowledge and the trades that are most useful in the home and in gaining a livelihood.

It is recognized that every girl preparing through any kind of an education for life will have more or less to do with a home, with the chances largely in favor of her having at some time the entire care of a home; and upon the proper management of the home depends much of the happiness and success of our community. Hence a training in home economy should be part of every girl's education.

To meet these requirements the Vocational School offers two-year courses in housekeeping, dressmaking and power machine work. In addition the school teaches academic subjects which are related to the practical work in a way that makes their value fully appreciated. Millinery is taken up in season during the second year.

Physical exercises, under direction, is an attraction of the junior and senior years.

DRESSMAKING—This course is planned to fit a girl for the dressmaking trade. It includes plain sewing, dressmaking, modeling, power machine work and mending.

MENDING:

Patching.

Darning.

Mending of straight and hedge tears.

MILLINERY :

- Fall and Spring Renovating.
- Making of velvet, straw and lace hats.
- Trimming.
- Flower Making.

HOUSEKEEPING—The housekeeping course includes everything that makes and keeps a house in good condition to live in. It teaches the buyer to get one hundred cents' work out of every dollar spent for food and clothes. It includes cooking, household management, laundry work, table service, marketing and home nursing.

COOKING :

Economy and management of the kitchen.

1. Plain cooking.
2. Food values.
3. Simple menus.
4. Serving.
5. Marketing.
6. Practical application in the home.

NOTE:—Repetition develops responsibility and assurance in the cooking and serving of meals. This practical experience is gained in the lunch room of the State Normal School, now under the management of the Vocational School.

LAUNDRY COURSE—Includes practice in removal of stains, washing and ironing of all articles of clothing and of household linens.

HOUSEHOLD ENGINEERING :

- Efficient Household Arrangement.
- Plans and methods for Daily Housework.
- Choice and care of Household Tools.
- Cleaning—Standard Practice.
- Labor-Saving Devices.

HOME NURSING :

- Care of bedroom.
- Care of patient.
- Bandaging.
- First Aids.
- Care of the Baby.

ARITHMETIC IN RELATION TO :

- 1. Dressmaking—Millinery.
- 2. Personal expenditure.
- 3. Household.
- 4. Business.

ENGLISH :

- 1. Correction and improvement of every day speech.
- 2. Personal and business correspondence.
- 3. Cultivation of a taste for reading.

CIVICS :

- 1. Government of Communities.
- 2. Current events.
- 3. Local interests.

HOUSEHOLD SCIENCE :

- 1. The Physics and Chemistry of the Household.

TEXTILES :

Study of Fabrics.

- 1. Name.
- 2. Cost.
- 3. Durability.
- 4. Uses.
- 5. Tests.

DESIGN :

Art as applied to a woman's clothing.

- 1. Color.
- 2. Line.
- 3. Fabric.
- 4. Appropriateness.

HANDICRAFT :

Through stenciling, painting and needlework, the pupil learns the construction of many useful and artistic articles.

CARE OF THE HOME :

1. Furnishing.
2. Decorating.
3. Sanitation.

GIRLS' LUNCH DEPARTMENT :

In February, 1916, the girls' school opened the dining room at the State Normal School and since then has served dinners and luncheons to the faculty and students of the school. This gives a valuable training in preparing food in large quantities and also in serving; the practice proved to be so valuable it seemed wise to make it a permanent part of the curriculum.

The school sent out a class of twenty-six graduates on June 21, 1921.

The State Board of Education exercises a considerable control over the school, as the state has agreed to pay one-half of the maintenance expense of the school. In order to secure reimbursement from the state, the courses of study, equipment, buildings and the work of the teachers must be approved by the agents of the State Board of Education.

EVENING VOCATIONAL SCHOOL FOR MEN

These courses are trade extension and are open only to men employed in that line of work during the day and who are sixteen years of age or over.

The school opens early in October and each class meets two evenings a week, two hours an evening, for twenty weeks.

The following courses were offered :

COURSE	NO. BELONGING
Machinist	105
Auto Repair	63
Carpentry	22
Plumbing	31
Electrical Theory	40
Firemen	45
Engineers	16

Definite courses have been laid out and a system of records devised so that each man's progress and accomplishment can be kept.

Certificates are given to those whose attendance and ranks are satisfactory. On the certificates are the number of evenings attended and the kind of instruction completed.

WOMEN'S EVENING PRACTICAL ARTS

Courses in cooking, sewing, millinery and embroidery are in operation in several parts of the city, from October to April, two evenings a week, two hours each evening.

The classes are for employed women and girls sixteen years or over, and 1682 women were in attendance last year.

The main work is carried on at the Morrill School, but the courses are being run at the following centres:—

Butler—Cooking, sewing and millinery.

Colburn—Sewing and millinery.

Girls' City Club—Dressmaking, millinery, embroidery and home nursing.

Varnum—Classes in cooking, sewing and millinery were held in correlation with the Americanization classes.

Green—Cooking, dressmaking and millinery.

Greenhalge—Cooking, dressmaking, millinery and home nursing.

Pawtucket—Cooking, dressmaking, millinery and home nursing.

Moody—Cooking.

Morrill—Cooking, dressmaking, millinery and home nursing.

Washington—Cooking, dressmaking and millinery.

New centers were opened at the Franklin and Lincoln Schools, also dressmaking and millinery classes opened at the Moody.

Respectfully submitted,

THOMAS F. FISHER, Principal.

GARDEN WORK

To Mr. Hugh J. Molloy,
Superintendent of Schools.

Dear Sir:—

School garden work has been carried on in Lowell for the last nine years under the direction of the supervisor of primary grades.

From nine community gardens and one hundred home gardens it grew to be a big organization, called into existence by war conditions, until in 1919, there were 5000 gardens cared for by children in the Lowell schools.

In 1921, owing to the organization of the junior high school and the consequent changes in the elementary schools, garden work was not carried on above the sixth grade except in the Colburn, Moody, Varnum and Greenhalge Schools.

The summer supervision of the work was by the officers of the different garden clubs.

Again we are indebted to our Congressman and friend, Hon. John Jacob Rogers, who supplied us with vegetable and flower seeds most generously as in former years. I feel that we owe much to him for the success of garden work in Lowell.

School garden work has proved its worth; if it should be continued in our schools I recommend that it be confined to the first five or six grades and that some provision be made for summer supervision.

Respectfully submitted,

ALICE T. LEE,
Supervisor of School Garden Work.

REPORT ON PHYSICAL EDUCATION

"Physical vigor and soundness contribute to happiness." It is the aim of the physical department to instruct boys and girls in exercises and games in such a way as to make the entire program of physical education a pleasure to them. The best results are obtained when pupils look upon their physical work as a pleasure and not something that is forced upon them. Play is an important part of life where happiness and health are concerned. Building of character, through leadership, is one of the greatest results gained by a systematic carrying out of a physical program. Not only is the physical side of a child developed in this branch of education, but also the mentality.

Through the many exercises and games co-ordination of brain and muscle is attained which results in a much quicker reaction. This makes a pupil more alert at all times.

At certain periods of a child's life, there are certain types of reading, spelling, arithmetic, etc., that he is able to understand and practice. This holds true in physical exercise and games. Pupils of a lower grade cannot do the more strenuous games that are carried on by the upper grades. Their physical makeup is not developed to the point where they are able to do the same work. It is with this in mind that lessons, each with varying degrees of difficulty, have been made out for the different grades.

One set of nine lessons has been made to cover grades of the Junior High School, namely, the seventh, eighth and ninth grades. Another set of nine lessons is used in the fifth and sixth grades. Games adapted to each age are taught by instructors throughout the schools. Organized play and exercise properly directed are of utmost benefit. The above exercises and games are arranged to cover a period of fifteen minutes per day.

There have also been distributed through the schools the co-called "Three Minute Drills." Such exercises given several times a day allow a change of air in rooms, give the pupils a chance to stretch after a long sitting period, and also allow them to get good fresh air into their lungs. These are given by a boy leader in the room. In distributing these exercises group meetings of teachers

were held and each movement was explained in detail, showing the correct method of giving them, and the results to be attained. Correct posture both standing and sitting were also dealt with and an especial effort is being made to eliminate all postural defects. In this connection the Physical Department is co-operating with the corp of physicians and nurses.

There are at the present time five instructors in the elementary and primary schools, one in the Continuation and Vocational schools, and three in the High School making a total of ten instructors.

In this respect Lowell compares favorably with such cities as Fitchburg, New Bedford, Fall River, Holyoke and Worcester.

The out-side-school-hour activities of the department are seasonable. Baseball, Basketball and Track being major sports. A successful basketball season was enjoyed by all the schools, each having a representative team in their respective divisions.

An out door track meet is planned, which will be held in June.

"Whatever is done in physical education must have the reaction of elevating the community, race or nation. With the hearty co-operation of principals, teachers and instructors, we have made good progress, in the building up of our physical education system.

Respectfully submitted,

DONALD R. MacINTYRE.

REPORT OF THE SUPERVISOR OF PRIMARY GRADES AND KINDERGARTENS.

TO MR. HUGH J. MOLLOY,
SUPERINTENDENT OF SCHOOLS.

Dear Sir :-

We are fortunate in having been able to equalize the numbers in most of our primary schools. At present there are not many overcrowded schools.

Among those having the largest numbers is the Tenth Street school; it is now filled to its capacity. With the number now

belonging in the Varnum kindergarten, many of whom will enter the Tenth Street school next summer, some provision will have to be made for a large entering class next September.

Other schools which have large numbers are those in the more congested parts of the city where there is a large foreign population. Many children enter these schools who cannot speak English and come from homes where English is never spoken.

I refer to the Cabot and Worthen Street schools; in these schools there should be small classes.

The transferring of the third grade in the Worthen Street school to the Green school helped to relieve conditions in the former school.

At the beginning of the year 1922, I find, that in schools where conditions are normal, teachers have been able to complete the work required in our "Course of Study".

With the power acquired through phonetic drill, children in the first grade are now doing independent reading, the basal primer has been completed and supplementary readers are being used. At the end of the school year in many first grades twelve books will have been read. If the phonetic work in the first grade is well done the work in the upper grades is more easily mastered but, in the first grade, the foundation must be laid and if a child is not able to get this in one year he should not be forced into second grade work until he does get it.

As soon as the children can read they love to read; hence the necessity for good reading material in our primary schools and plenty of it.

Through language games, dramatization of stories read or told and reproduction of correct forms of expression, oral English is taught in all grades and as our writing system is being developed more attention is being paid to written English.

A gradual change has been taking place in our kindergartens; an effort has been made to make the kindergarten a unit in our school system rather than be a distinct organization in itself.

Now that the entering age to the kindergarten has been changed to four years it was decided at a conference of kindergarten teachers with the Superintendent of Schools and the

Supervisor of Primary Grades and Kindergartens to reorganize the work in the kindergarten at the beginning of the second half of the school year.

In the Laura Lee kindergarten sub-primary work was introduced last year. Through games, stories and pictures, children were taught the beginning of first grade work. Pictures illustrating all the type words used in our excellent system of phonics were made by the teachers. By the telling of stories introducing these type words and the use of the pictures the recognition and reproduction of the phonetic elements were taught. At the end of the school year the children in this kindergarten recognized all the phonetic elements required in the first grade, reproduced these elements, blending the same into phonograms, and knew all the letters of the alphabet and were prepared for reading.

Number work was also introduced by counting, the making of figures and symbols with pegs and splints, paper cutting and drawing on the black-board.

Today that class is six months ahead of the class which entered the primary school without this training.

In all kindergartens in the city it is proposed to organize this work the first week in February but only children who expect to enter the primary school next September will take up sub-primary work.

There is a nation-wide movement to make the kindergarten an organic part of the school system. I feel that Lowell kindergarteners have already presented a solution.

Respectfully submitted,

ALICE T. LEE,

Supervisor of Primary Grades
and Kindergartens.

HOW THE CONTINUATION SCHOOL IS MEETING THE PROBLEM.

The Continuation School keeps the pupil along general educational lines but at the same time cements his education on to his vocational activity.

In our school effort is being directed to the following classes of educational problems for young wage-earners.

1. To provide opportunities for beginning to learn a trade by supplementing the shop experience of such as have a definite plan and purpose.

2. To provide through craft work avocations for those employed in non-manual or narrowly specialized industrial occupations.

3. To provide for the untrained, unskilled worker some of the opportunities which were lacking under the older forms of public education, for developing habits of industry, knowledge of individuals, aptitudes, and of the larger meaning of industry, to create the desire and purpose to work for cultural and industrial efficiency.

Due to becoming 16 years of age, 546 pupils withdrew during the year and their places were taken by new pupils coming in from the Elementary, Vocational and High Schools.

45 boys and 24 girls were returned to regular day school.

During the year, 1500 follow-up visits were made to homes or places of employment.

During the school term a Commercial Course consisting of Bookkeeping and Typewriting was added to the courses in Woodworking and Machine Shop Practice for the boys.

In September, 1921, in addition to Dressmaking, Millinery and Domestic Science Courses, a class in Home Nursing (Red Cross) for the girls was started by Miss Marietta M. Dwyer, R. N. School Nurse.

Respectfully submitted,

THOMAS A. GINTY,
Director.

JUNIOR HIGH SCHOOLS

From the report of the Superintendent submitted to the School Committee on December 3, 1919, the following is taken.

What is a junior high school? A junior high school is a school which combines the last two grades of the elementary or grammar school system and the first or freshman year of the high school; according to the best standards it should be maintained in its own properly-equipped building since it is a school of distinct character and purpose, but it may be and is maintained in buildings which contain other grades or units. But, as a part of a 6-3-3 system, and I refer to the 6-3-3 system as it is understood by all educators and administrators, a true junior high school must present definite features.

1. It should show a segregation or grouping in one school location of the children of the last two grammar school and the first high school years of a district of considerable size because these children form a rather distinct group as to age and temperament, and in order that their instruction will be so devised as to make an easy transition from elementary to high school methods.

2. Larger numbers of children than the ordinary grammar school has in its last two grades should be brought together in the junior high school group so that there may be a differentiation or a proper classification of children according to their tastes, tendencies, abilities, future courses of study in the high school, or occupations at the completion of their school attendance.

3. The junior high school should offer such a range of subjects and activities as will serve to discover and test out the tastes, abilities and inclinations of boys and girls to a greater extent than is now possible in the ordinary type of grammar school.

4. The teaching in all large or important subjects should be departmental; that is, the teacher of any subject should be a specialist in that subject and should give his time in the school almost exclusively to that subject, it being understood, however, that each child shall be assigned to a regular or "home-room" teacher who will have charge of all his minor subjects and have a personal interest in his attendance, conduct and general well-being.

5. There should be in the junior high school a closer and more intimate relation with the high school with regard to supervision, direction and co-operation than generally exists between the ordinary grammar school and the high school.

6. The courses offered in the junior high school should be such courses as may or will be continued in the senior high school and the method of treating them should be such as will harmonize with the continuation of those courses in the high school.

7. The third year of the junior high school unit must do fully and thoroughly the work of the first or freshman year of the senior high school so that the boy or girl who completes the three years of the junior high school organization will enter high school as a member of the second year or sophomore class.

Any 6-3-3 system or junior high school system which does not show the characteristics which have been referred to in the preceding seven points is not a 6-3-3 or junior high school system.

Later in the month the Committee adopted the following measures:

1. That no material or considerable change be made in the organization, grading, courses of study, assignments of teachers, or locations of pupils until the beginning of a new school year in September.

2. That detailed plans be prepared forthwith, courses of study arranged, teachers prepared, and necessary equipment provided for the organization of the Bartlett School as a Junior High School for the children of the Bartlett-Green-Pawtucket district; for the organization of a Moody-Riverside-Colburn district with the Moody School as a center and the Varnum-Greenhalge district with the Varnum School as center, said organization to go into effect in September, 1920.

3. That the organization of Junior High School units in the other districts of the city be entered upon as soon as a suitable addition in the Highland district and a suitable building in the Edson-Butler district shall have been provided.

In September, 1920, the Bartlett school entered upon a plan of junior high school organization and the seventh grades of the Green and Pawtucket schools were transferred to the Bartlett school. Again in September, 1921, the seventh grades of the Green and Pawtucket schools were transferred to the Bartlett school and in September, 1922, the seventh grades will be trans-

ferred for the third and last time from the Green and Pawtucket schools. The Bartlett school will then be caring for all the seventh, eighth and ninth grade pupils of the Bartlett-Green-Pawtucket district. During this time of reorganization the work of the seventh, eighth and ninth grades has been undergoing gradual change and, by the completion of the school year 1922-23, a large proportion of the graduates of the school will have anticipated much of the work of the freshman class of the high school. In September, 1921, a beginning of junior high school organization was made in the Morey district and the seventh grade pupils of the Lincoln and Washington schools were transferred to the Morey school; similar transfers will be made in September, 1922, and September, 1923, so that at the time of the third and last transfer the Morey school will care for all the seventh, eighth and ninth grade pupils of the Lincoln-Morey-Washington district.

It will be found as these junior high school organizations develop that the advantages to be derived by the pupils will far outweigh any considerations of inconvenience or distance, particularly when it is remembered that school distances in Lowell for a great number of children are remarkably short.

Notwithstanding the fact that the new high school has been planned to meet the high school needs of the city for a reasonable term of years it will be found in the near future that the school will be filling up to capacity; the development of the junior high school organization will then be found to count for much in virtually enlarging the capacity of the high school for the reason that many boys and girls will be kept in the junior high school for the completion of their high school freshman studies.

We have gone so far along the road to junior high school organization that it would seem now to be the part of wisdom to make comprehensive plans for the development of the Bartlett, Morey, Edson-Butler and Centralville districts.

EVENING SCHOOLS AND MILL CLASSES

The evening schools of Lowell have made steady progress in recent years and the assertion can be made truthfully that they are on the same professional basis as the day schools; they are officered and taught by the regular teachers of the department so far as the regular corps can meet the needs of the schools.

In certain lines of work in the commercial department of the high school and for evening vocational classes it has been found necessary to supplement the day school forces on account of the large numbers seeking evening school instruction. Every effort has been made, however, to secure most competent teachers for evening schools, for these classes are just as much a part of the public schools as the day classes are and because those who attend evening classes do so through extra effort and sometimes under difficulties and consequently are entitled to most generous and enlightened consideration.

We have some very large and important evening school organizations; the most important of these is the evening high school which in administration, atmosphere and efficiency will not suffer by comparison with any day school. Its school year is necessarily short and many of its pupils have not had the preparation and advantages which a large number of the day school pupils have but it can be said with assurance that the school offers any earnest and industrious boy or girl the opportunity to secure in time a liberal high school education.

The vocational school with its boys' department in the Mann building and its girls' department in the Morrill building has large and efficient classes in all its lines of work; there have been also many successful and well-attended vocational classes in other buildings throughout the city.

Evening elementary classes have been conducted in six of the elementary schools.

At the Butler school there have been elementary, millinery, dressmaking and cooking classes; at the Colburn, elementary, americanization, millinery and dressmaking; at the Edson, elementary; at the Franklin, americanization, dressmaking and millinery;

at the Green, including the Cabot, elementary, americanization, dressmaking and cooking; at the Greenhalge, elementary, millinery, dressmaking, cooking and home nursing; at the Moody, millinery, dressmaking and cooking; at the Pawtucket, millinery, dressmaking and cooking; at the Riverside, dressmaking; at the Varnum, americanization, millinery, dressmaking and cooking; at the Washington, millinery, dressmaking and cooking; at the Girls' City Club, millinery, dressmaking and home nursing; at the High School annex, blacksmith work and forging; at the Lincoln, elementary, americanization, millinery and dressmaking.

For several years classes in English and civics have been made maintained during the noon hour and late in the afternoon at the Massachusetts mills; these classes have been very profitable and have made steady progress. This year the work of mill classes was extended to the Hamilton and Merrimack mills and a good beginning was made.

All classes known as americanization classes and all the vocational classes are conducted as a joint enterprise by the State of Massachusetts and the City of Lowell; the State has a financial and supervisory interest in these classes and reimburses the city to the extent of one-half the maintenance expense of the classes.

The school department has co-operated as fully as possible with the state in the matter of University Extension classes and we have had some very large and successful extension classes; there have been classes in Salesmanship, Commercial Law, French, English and Public Speaking, Music Appreciation and Automobile Repairing.

Taken altogether, the school activities of the city, outside the regular day schools, have assumed large and important proportions.

SCHEDULE OF SCHOOL SESSIONS AND VACATIONS.

High School:—8.40 A. M. to 1.40 P. M. (Freshman 7.50 A. M. to 12.50 P. M.)
 Junior High School:—8.30 A. M. to 11.30 A. M. and 1.15 P. M. to 3.45 P. M.
 Elementary Schools:—8.30 A. M. to 11.30 A. M. and 1.45 P. M. to 3.45 P. M.
 Middlesex Village:—9 A. M. to 12 M. and 1.30 P. M. to 3.30 P. M.
 Lexington Avenue:—8.45 A. M. to 11.45 A. M. and 1 P. M. to 3 P. M.
 Vocational School, Boys':—8.30 A. M. to 12 M. and 12.30 P. M. to 3.30 P. M.
 Vocational School, Girls':—8.30 A. M. to 12.30 P. M. and 1 P. M. to 3.30 P. M.
 Evening High School:—7 to 9
 Evening Vocational Schools:—7.15 to 9.15
 Evening Elementary Schools:—7 to 9

VACATIONS

Summer Vacation—from the Wednesday preceding the last Friday in June to the second week in September.

The week which includes Christmas.

The week beginning with the ninth Monday and the week beginning with the eighteenth Monday after the Christmas vacation.

Hours for ringing the no-school signal:—7.15 A. M., 12.45 P. M. and 6.05 P. M.

Respectfully submitted,

HUGH J. MOLLOY,

Superintendent of Schools.

SUMMARY OF EVENING SCHOOL ATTENDANCE
For Term 1920 1921

SCHOOLS	Number of Rooms in Each School	Teachers at Beginning of Term	Teachers at Close of Term	Evenings Taught	Whole Number on Registers			Average Number Belonging			Average Attendance			Per Cent. of Attendance	Minors Unable to Read and Write in English		
					Males	Females	Total	Males	Females	Total	Males	Females	Total		Males	Females	Total
High	39	39	37	75	534	742	1276	281	465	746	237	419	656	80			
Cabot Street	2	2	2	70	57	57	57	38	38	38	63	80	80	80			
Colburn	6	6	6	70	130	36	166	70	23	93	63	20	83	89	32	18	50
Edson	6	6	6	70	161	72	234	72	42	114	60	36	96	84	23	17	40
Green	12	12	12	70	192	223	415	130	133	263	106	113	219	83	67	71	138
Greenhalge	3	3	3	70	78	36	114	31	22	53	24	18	42	81	19	16	35
Totals	63	67	66		1096	1166	2262	584	723	1307	490	636	1126	82%	141	123	264

REPORT OF THE ATTENDANCE OFFICERS FOR THE YEAR 1921

	Total Number Cases Investigated	Absentees	Truants	Wandering on the Streets	Visited Second Time	Visited Third Time	Arrested	Sent to the Middlesex County Training School	Placed on Probation	Prosecution of Parents	Violating the Rules of School	Employment Cert. Issued 14 to 16 yrs.	Educational Cert. Issued 16 to 21 yrs.	Illiterate Certificates
January.....	339	301	38	49	22	6	1	0	1	0	0	13	98	32
February.....	205	183	22	57	10	0	1	1	0	0	0	18	169	21
March.....	367	317	50	64	36	7	0	0	0	0	0	47	244	38
April.....	217	189	28	48	13	0	0	0	0	0	0	40	270	36
May.....	395	332	63	49	12	5	1	1	0	0	0	47	257	67
June.....	62	55	7	12	4	1	0	0	0	0	0	33	285	63
July.....												12	281	51
August.....												16	281	51
September.....	334	313	21	21	4	0	0	0	0	0	0	119	345	76
October.....	484	443	41	32	9	2	0	0	0	0	0	62	368	76
November.....	311	277	34	23	3	1	2	2	0	0	0	45	279	32
December.....	266	230	36	19	4	1	0	0	0	0	0	42	358	30
Totals.....	2980	2640	340	374	117	23	5	4	1	0	0	494	3267	580

Employment Certificates Issued	494
Literate Educational Certificates Issued	3267
Illiterate Educational Certificates Issued	580
Employment Certificates Limited 14 to 16	3
Special Part Time Employment 14 to 16	62
Vacation Certificates	121
Home Permits	45
Total	4572

Roll of Teachers

Giving name, subjects or grade taught, residence and date of election.

HIGH SCHOOL Kirk and Anne Streets

Henry H. Harris, Head Master	93	Eleventh St.	\$4,300
Frederick R. Woodward, Sub-master, Head Dept. Mathematics	24	Sanders Ave.	3,400
Fred Albinson, Bookkeeping	8	Newbury St.	2,500
Jennie L. Allen, Physics	947	Middlesex St.	2,000
Alice H. Bacheller, Type, Hist. IV, Com. Law, and Arithmetic	21	Huntington St.	2,000
Adelaide Baker, Head of Department of French	136	Myrtle St.	2,100
Orton E. Beach, Stenography and Office Training	858	Chelmsford Street	2,500
Emma L. Bradley, French	111	Belmont St.	2,000
Elmer G. Brennon, Mathematics	97	Georgia Ave.	2,700
C. Fred Campbell, Manual Training	226	Princeton St.	2,500
Marietta Cassidy, Latin	4	Fifth Ave.	2,100
M. Mabel Cassidy, History English and French	44	B St.	2,000
Helen E. M. Choate, Mathematics	21	A St.	1,600
Alice L. Cluin, Latin and Algebra	130	Fort Hill Ave.	2,000
James F. Conway, Chemistry and Physics	113	Wentworth Ave.	3,000
Grace D. Donovan, History IV and English	250	Branch St.	2,000
Ruth L. Eaton, Assistant to Principal	59	Pine St.	2,000
Esther Elliott, Algebra and Latin	25	Fairview St.	1,900
Edith S. Erskine, Botany German and History	25	Clark Road	2,000
Ethel M. Everett, Algebra, Civics and Ancient History	74	Fort Hill Ave.	2,000
Bertha W. Ferguson, Bookkeeping	100	Myrtle St.	2,000
Florence R. Foote, French, Algebra and History	28	Wannalancit St.	2,000
John J. Gardner, Algebra Com. Law and Arithmetic	795	Bridge St.	1,830
Grace M. Goodhue, Ancient History	120	School St.	2,000
Peter J. Gulesian, Manual Training	Blanchard Ave.,	Billerica, Mass.	2,500
Mary E. Harrigan, Latin, English and Com. Geography	50	Highland St.	1,400
E. Irene Hogan, English and Algebra	117	Clark Road	1,280
Bessie E. Huntoon, French	64	Warwick St.	2,000
Bertha C. Huse, Pianist	1125	Middlesex St.	1,050
Elizabeth Irish, English and Geometry	11	Willow St.	1,700
Mary C. Joyce, Expression	82	Eleventh St.	2,000
Mary H. Kilpatrick, Com. Geo. Hist. IV and English	27	Maryland Ave.	2,000
Helen M. Lambert, Physics and Chemistry	283	Pawtucket St.	2,000
Genevieve E. Lawrence, Algebra and English	53	Berkeley Ave.	2,000
Frances R. H. Leggat, Physical Director	137	Wentworth Ave.	1,800
Albert D. Mack, Head of Commercial Dept.	20	Wentworth Ave.	3,000
Mary L. Martin, Latin and English	39	Durant St.	2,000
Frances U. Masterson,	14	Oakland St.	3,000
Estelle Moors, Algebra and English	104	Moore St.	1,900
Elizabeth H. Murphy, French, Hist. IV, Com. Law and Arith.	150	White St.	2,000
Donald R. MacIntyre, Physical Director	20	Webber St.	2,500
John D. McKinley, Latin	474	Beacon St.	2,500
Loretto A. McManmon, English and Algebra	Dracut,	Mass.	1,900
Frances O'Neil, Algebra and Geometry	12	Osgood St.	1,400
Flora A. Owen, Stenography, Type, and Bookkeeping	42	Huntington St.	2,000
Esther A. Owens, Latin and English	4	Belmont St.	1,600
Joseph G. Pyne, Greek and English	116	School St.	2,500
Gertrude A. Rodliff, English	Chelmsford	Centre	2,000
G. Myrtle Rooney, Assistant Physical Director	238	Pine St.	1,400
Ida L. Samuels, Stenography and Bookkeeping	52	Crawford St.	2,000
John J. Savage, Eng. Greek, Hist. Physio. and Com. Geography	56	Simpson Ave., Somerville	2,500
Ruth L. Sawyer, English, Algebra and Civics	160	Fairmount St.	1,800
Charles E. Secde, Manual Training	26	Fairgrove St.	2,600
Millie A. Severance, English and Physics	302	Stevens St.	2,000
James A. Shanley, Bookkeeping	364	Lawrence St.	2,500

ROLL OF TEACHERS

47

Margaret V. Spear, French	576	Westford St.	2,000
Mary G. Stevens, English and History	57	Belmont Ave.	2,000
Alice O. Stickney, English, Astronomy and Geology	599	School St.	2,000
Morton A. Sturtevant, Head of Department of English	50	Rea St.	2,700
Edward J. Thompson, Physiology and Spanish		Chelmsford Centre ..	2,350
Mary E. Tobin, English and History IV	52	Highland St.	2,000
Susie L. D. Watson, History IV	390	E. Merrinack St.	2,000
Nathan Pulsifer, M. D., Medical Director	473	Beacon St.	200
Major Colby T. Kittredge, Military Instructor	48	So. Walker St. ..	1,000

Janitors

Michael J. Lynch	10	Oxford St.
Herbert R. Baker	9	Shedd St.
Patrick J. Clark	199	Pleasant St.
Arthur H. Dana	52	Myrtle St.
Michael H. Finnegan	141	Fayette St.
William Mack	37	May St.
John J. Moran	43	Anderson St.
Charles E. Thornton	50	Highland St.

GRAMMAR SCHOOLS

BARTLETT SCHOOL

Wannalancit Street

(Normal Training School)

Charlotte M. Murkland, Principal	179	Pine St.	\$3,070
Sarah E. Ames, gr. 9, 8, 7, Hist. Physical Work, Pen.	418	Walker St.	1,950
Edith J. Atwood, gr. 8, 7, English and Office	9	Robbins St.	1,950
Kathleen E. Driscoll, gr. 9, 8, 7, Geography	47	Grace St.	1,950
Katherine F. Farley, gr. 5		Lowell, R. F. D. 3 ..	1,700
Katherine I. Farley, gr. 6		Lowell, R. F. D. 3 ..	1,200
Eleanor J. LeLacheur, gr. 4	128	Fourth St.	1,950
Helen Mansfield, gr. 7, History and English	12	White St.	1,770
Addie B. Merrill, gr. 7 Mathematics	465	Bridge St.	1,950
E. Belle Perham, gr. 4	100	Riverside St.	2,050
Belle A. Prescott, gr. 9, 8, 7, English	50	Mt. Vernon St.	1,950
Bessie D. Randlett Drawing	95	Sanders Ave.	1,550
Maria W. Roberts, gr. 5	50	Mt. Vernon St.	1,700
Charles J. Rodgers, Manual Training	166	Pine St.	2,450
M. Beatrice Shea, gr. 9, 8, 7, Eng., Music, Penmanship ..	267	Walker St.	1,850
Alice D. Sunbury, English and Domestic Science	179	Pine St.	1,950
Amy L. Tucke, gr. 9, 8, Mathematics and Music	111	Butterfield St.	1,950
Mary F. Wallace, gr. 6 temp. assignments gr. 5 and 6 ..	98	Grove St.	1,520

Janitors

Thomas F. Hannafin	15	Sargent St.
John J. Shields	120	Bartlett St.
John T. Rogers	384	Concord St.

Cleaner

Mrs. Susan Moran	50	Claire St.
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BUTLER SCHOOL

Gorham Street

Charles E. DeLorme, Master, Algebra	134	Bellevue St.	\$2,100
Delia T. Brady, gr. 9, 8, 7, Geography	183	Chapel St.	1,700
Helen L. Clark, gr. 9, 8, 7, Grammar and Language	222	High St.	1,700
Marguerite J. Cronin, gr. 9, 8, 7, Reading and Literature ..	228	Plain St.	1,700
Mary E. Crowley, gr. 6	75	Liberty St.	1,700
Annie J. Devine, gr. 6	154	Carlisle St.	1,700
Theresa R. Glynn, Groups	196	Pleasant St.	1,200
*Margaret G. Hyde, gr. 4	900	Central St.	1,700

ROLL OF TEACHERS

**Sarah D. Ivers, gr. 4	.....	East Chelmsford,	1,700
Mary E. Lane, gr. 9, 8, 7, Domestic Science	.....	12 Ellsworth St.	1,800
Mary L. McSorley, gr. 5	.....	40 Huntington St.	1,700
Nellie F. Murphy, gr. 9, 8, 7, Arithmetic	.....	85 Sherman St.	1,700
Alice C. O'Brien, gr. 6	.....	300 Wilder St.	1,700
*Mary G. Quinn, gr. 4	.....	28 Chapel St.	1,700
Margaret K. Riordan, gr. 5	.....	257 Rogers St.	1,700
Charles E. Seede, Manual Training	.....	26 Fairgrove St.	540
Sadie E. Tully, gr. 9, 8, 7, History and Civics	.....	111 Westford St.	1,700
*Room in Carter St. School.			
**Room in Weed St. School.			

Janitors

Terrance F. Casey	.....	163 Howard St.
Thomas M. Keegan	.....	22 Ellsworth St.

COLBURN SCHOOL

Lawrence Street

Helen M. Shean, Prin., Language and Grammar	.....	260 High St.	\$2,280
Anna J. Cawley, gr. 8, History	.....	83 Rogers St.	1,700
Sadie A. Connor, gr. 6	.....	73 Pleasant St.	1,700
Elizabeth A. Conway, gr. 5	.....	219 Church St.	1,700
Alice G. Donohoe, gr. 7, Geography	.....	50 Linden St.	1,700
Caroline A. Downey, gr. 5	.....	56 Huntington St.	1,700
Margaret C. Fox, gr. 9 Arithmetic and Domestic Science	.....	8 Eddy St.	1,800
Vera E. Groves, gr. 4	.....	362 East Merrimack St.	1,700
Louise C. Thomas, gr. 4	85 Eleventh St.	1,700

Janitor

Patrick J. Mahoney	16 Lyon St.
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EDSON SCHOOL

Highland Street

Leo A. King, Master	4 Astor St.	\$3,100
Mary F. Concannon, gr. 6	204 Pleasant St.	1,360
Anna E. Donovan, gr. 9, 8, 7, Geography	.....	26 Madison St.	1,700
Marianna L. Donovan, gr. 4, Domestic Science	.....	256 Branch St.	1,800
Marietta G. Gormley, gr. 4	.....	22 Lyon St.	1,700
Kate J. Hayes, gr. 6	.....	15 Floyd St.	1,700
Delia C. Maloney, gr. 5	.....	70 Elm St.	1,700
Margie F. Marren, gr. 4	.....	86 Rolfe St.	1,700
Marietta E. O'Neil, gr. 9, 8, 7, History and Civics	.....	11 Carter Ave.	1,700
Frances M. Webster, gr. 9, 8, 7, English Composition	.....	45 Varney St.	1,700

Janitors

John H. Condon	.....	96 Midland St.
William P. Black	.....	906 Central St.

GREEN SCHOOL

Merrimack Street

Elizabeth Provencher, Prin.	.....	22 West Bowers St.	\$2,100
Hannah M. Barrows, gr. 9, Domestic Science	.....	66 Hanks St.	1,800
Agnes T. Courtney, gr. 5	.....	11 Marsh St.	1,700
Mary F. Devine, gr. 8	.....	1527 Gorham St.	1,700
Carrie E. Erskine, Special	.....	74 Fort Hill Ave.	1,700

ROLL OF TEACHERS

49

Jennie E. Fay, gr. 6	115	Stackpole St.	1,700
Mary V. Johnson, gr. 4	183	Wilder St.	1,700
Jane T. Johnston, gr. 4	33	Webber St.	1,440
Katherine F. McCarthy, gr. 5	647	Market St.	1,700
M. Alice McCue, gr. 6	232	Methuen St.	1,700
Lizzie A. Nolan, gr. 6	210	Pawtucket St.	1,700

Janitors

Oscar W. Brown	35	Livingston Ave.
William S. McKenzie, Jr.	87	Gershom Ave.

GREENHALGE SCHOOL

Ennell Street

John G. Wolcott, Master	115	Nesmith St.	\$2,820
M. Alice Cochran, gr. 7, Literature and Composition	230	Cabot St.	1,700
Mary Margaret Cowell, gr. 7 History and Civics	22	London St.	1,700
Esther G. Donlan, gr. 9, Grammar and Domestic Science	756	Westford St.	1,800
Josephine S. Dunlavy, gr. 5 Music	76	Canton St.	1,700
Catherine T. Gillick, gr. 4	998	Lakeview Ave.	1,520
Alice Louise Joyce, gr. 6	82	Eleventh St.	1,700
Helen Kohawn, gr. 4	63	Thirteenth St.	1,700
Alice A. Masterson, gr. 5	14	Oakland St.	1,700
Ellen Theresa Muldoon, gr. 8, Mathematics	998	Lakeview Ave.	1,700
Leona Mildred Small, gr. 6, Music	46	Whitney Ave.	1,700

Janitors

John Barrett	19	Burnside St.
David E. Cornock	821	Bridge St.
James Hounsell	704	Bridge St.

ABRAHAM LINCOLN SCHOOL

Chelmsford Street

D. Murray Cummings, Master	64	Temple St.	\$2,100
Mabel W. Ewings, gr. 5	3	Astor St.	1,700
Ellen L. Floyd, gr. 4	124	Stevens St.	1,700
Irma V. Hodgman, gr. 9, Mathematics	632	Westford St.	1,700
Margaret S. Jamieson, gr. 5	19	West Forest St.	1,700
Harriet L. McAloon, gr. 8, Literature	112	Sixth St.	1,380
Margaret G. McDonald, gr. 6	397	Broadway	1,700
Mary T. O'Neil, gr. 6	175	Walker St.	1,440
Elsie M. Puffer, gr. 4	942	Middlesex St.	1,700
Dorothy F. Riordan, gr. 7	257	Rogers St.	1,280
Margaret M. Sparks, gr. 9, History	169	Fort Hill Ave.	1,700
Bride T. Sweeney, gr. 7, Grammar	12	Cascade Ave.	1,700
Sadie A. Taff, gr. 8, Composition	235	Stackpole St.	1,520

Janitors

Edward Cullen	9	Auburn St.
Thomas F. Quinn	30	Weed St.

MOODY SCHOOL

High and Rogers Streets

William S. Greene, Master, Arithmetic and Algebra	302	Nesmith St.	\$3,100
Katherine F. Baker, gr. 6	665	Andover St.	1,700
Mary T. Carolyn, gr. 9, Arithmetic and Domestic Science	256	Concord St.	1,800
Frances E. Garrity, gr. 5	74	Stevens St.	1,700
Margaret C. Gookin, gr. 6	824	Rogers St.	1,440
Frances E. Hardman, gr. 5	18	Astor St.	1,700
Gertrude A. Hession, gr. 7, History	178	Perry St.	1,520
Fannie G. Hobbs, gr. 4	60	Porter Terrace	1,700
Cora E. Jones, gr. 4	62	Huntington St.	1,700

Janitors

John O'Connor	102	Pleasant St.
Bernard J. Tracy	15	Abbott St.

ROLL OF TEACHERS

CHAS. W. MOREY SCHOOL

Pine and Wilder Streets

William W. Dennett, Master, History and Algebra	400	Stevens St.	\$3,350
Lillian E. Alister, gr. 5	71	Wedge St.	1,700
Leonora K. Battles, gr. 8, Arithmetic	21	Chester St.	1,950
Ella M. Breene, gr. 6	17	Florence Ave.	1,950
Anna A. Burnham, gr. 7, Grammar	242	Liberty St.	1,950
Anna T. Coffey, gr. 8, History and Spelling	16	Belmont St.	1,950
Annie V. Donoghue, gr. 9, Arithmetic	11	Wesley St.	1,950
Mary F. Foss, Domestic Science	351	Parker St.	1,950
Hazel A. Gardner, gr. 7, Geography and Penmanship	15	Columbus Ave. ..	1,690
Minnie C. Gray, gr. 6	106	Liberty St.	1,950
C. Ethel Hale, gr. 7, History	15	Robbins St.	1,700
**Mae A. Hogan, gr. 4	35	Glenwood St.	1,700
A. Loretta Mahoney, gr. 6, 5, 4, Geography, Music, and Spelling	22	Burlington Ave.	1,700
Katharine M. O'Donnell, gr. 8, 7, 6, Geography, Music and Oral Composition	148	Fort Hill Ave.	1,530
**Minnie Owens, Special	4	Belmont St.	1,700
Charlotte A. Parsons, gr. 4	11	Belmont St.	1,700
Grace Scribner, gr. 4	70	Tyler Park	1,950
Lulu Turner, gr. 5	33	Warwick St.	1,700
Katharine M. Usher, gr. 7, 6	32	So. Walker St.	1,700
**Grace F. Ward, gr. 5	438	Westford St.	1,700
Estelle L. Whitney, gr. 9	13	Oakland St.	1,700

Janitors

Elmer E. Harder	1066	Middlesex St.
Harrison L. Morgan	36	Waite St.

**Rooms in Franklin School.

PAWTUCKET SCHOOL

Mammoth Road

William P. Barry, Master	1280	Middlesex St.	\$3,100
Delia F. Briscoe, gr. 8	Lowell, R. F. D. No. 3	.....	1,700
Anna I. Cassidy, gr. 6	4	Fifth Ave.	1,700
Corinna G. Cover, gr. 4	16	Lombard St.	1,700
Clotilda A. Delaney, gr. 4	82	Colonial Ave.	1,700
Goldie M. Gardner, gr. 5	15	Columbus Ave.	1,700
Loretta Kinsela, gr. 6	50	B St.	1,700
Mary A. McKeon, gr. 5	37	Orchard St.	1,200
Lettie R. McMaster, Open Air Room	56	Rolie St.	1,850
Julia B. Riordan, gr. 9	27	Woodward Ave.	1,800

Janitors

James S. Somerset	104	Woodward Ave.
John Rouke	9	Sixth Ave.
Thomas J. McGee	83	White St.

RIVERSIDE SCHOOL

Woburn Street, Wigginville

Rosalie T. Burns, Prin. gr. 9, 8	39	Whitehead Ave.	\$2,100
Elizabeth A. Gilinson, gr. 6	3	Bourne St.	1,700
Christine M. Kane, gr. 5, 4	339	High St.	1,800
Harriet L. Wheeler, gr. 7	64	Morton St.	1,700

Janitor

John H. D. Toy	7	Nelson Ave.
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ROLL OF TEACHERS

51

VARNUM SCHOOL

Myrtle Street

Elizabeth C. Kennedy, Prin., Grammar	223	Pine St.	\$2,100
Florence E. Archibald, gr. 5	112	Fremont St.	1,700
Susan F. Burbank, gr. 8, History		Chelmsford Centre	1,700
Rose A. Dowd, gr. 6	127	Beacon St.	1,700
Agnes T. Fay, gr. 6	123	Third St.	1,700
Mary A. Fay, gr. 7	123	Third St.	1,700
Grace E. Frye, gr. 8, Domestic Science and Geography	93	Vernon St.	1,800
Ruth F. Hathaway, gr. 4	106	Durant St.	1,520
Ada E. Hoole, gr. 4	465	Bridge St.	1,700
Margaret F. Howe, gr. 5	208	South St.	1,700
Alice R. Keese, gr. 5	168	Sixth St.	1,700
Alice F. Morrill, gr. 4	56	Sixth St.	1,700
H. Madeline Sullivan, gr. 7, Grammar and History	250	Rogers St.	1,280
Grace M. Thurber, gr. 9, Grammar and Geography	42	Mansur St.	1,700
Charlotte C. Walsh, gr. 9, Arithmetic and Music	85	Eleventh St.	1,700

Janitors

John H. Nolan	65	Fulton St.
William J. Hunt (2nd)	3	Fourth St.

WASHINGTON SCHOOL

Lang Street, near Inland

John E. Barr, Master, Literature	168	Sixth St.	\$3,100
Carrie L. Brown, gr. 4	92	Jenness St.	1,700
Helen A. Dow, gr. 9, 8, 7, Algebra and History	149	B St.	1,700
Clara M. Everett, gr. 5, 4	756	Westford St.	1,700
Rose C. Geary, gr. 9, 8, 7, History	49	Whipple St.	1,700
Laura F. Greene, gr. 9, 8, 7, Arithmetic and Music	179	Warwick St.	1,700
Sara S. Griffin, gr. 6	121	South Walker St.	1,700
Edith A. Howitt, gr. 9, 8, 7, Composition and Grammar	169	Merrimack St.	1,700
Gertrude T. Keyes, gr. 9, 8, 7, Geography	62	Pine St.	1,700
Myrtle M. Killpatrick, gr. 4, Domestic Science	27	Maryland Ave.	1,800
Olive J. Palm, gr. 5	806	Stevens St.	1,700
Esther A. Sanders, gr. 6	79	Methuen St.	1,700

Janitors

David H. Angluin	27	Crowley St.
Thomas A. Green	512	Gorham St.
James A. Buckley	190	High St.

PRIMARY SCHOOLS

The grammar school to which each primary belongs is indicated in parenthesis.

Alice T. Lee, Supervisor of Primary Grades 12	South Walker St.	\$2,100
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Office Hours—Mondays, Wednesdays and Fridays 3. 45 to 4.45 p. m. at the office of the Superintendent of Schools.

AGAWAM STREET (Butler)

Mary A. Fay, gr. 3 and 2	115	Stackoole St.	\$1,750
Anna M. Higgins, gr. 3, 2, 1		North Billerica	1,750

Janitor

John H. Hallett	17	London St.
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ROLL OF TEACHERS

AMES STREET (Colburn)

Lawrence and Ames Streets

Rose E. McVey, Prin., gr. 2	46 Linden St.	\$1,750
Julia C. O'Sullivan, gr. 1	105 Mt. Washington St.	1,700
Mary C. Timmons, gr. 3	22 Ash St.	1,700

Janitor

John T. McCarthy17 Westwoods St.

BARTLETT SCHOOL

(In Bartlett School)

Grace C. Delaney, gr. 3, 4	82 Colonial Ave.	\$1,700
Regina B. Frappier, gr. 3	26 Hampshire St.	1,600
Emma M. Graham, gr. 2, 3	419 Chelmsford St.	1,700
Frances C. Moriarty, gr. 2	418 Walker St.	1,950
Essie E. Roche, gr. 1	1835 Middlesex St.	1,700
Mary E. Snow, gr. 1	89 School St.	1,700

CABOT STREET (Green)

Mary T. Whelley, Prin., gr. 3	254 Parkview Ave.	\$1,750
Loretta A. Hannafin, gr. 2	15 Sargent St.	1,700
Ellen F. Lynch, gr. 2	104 School St.	1,700
Mary J. Murphy, gr. 1	34 Butterfield St.	1,700

Janitor

John E. Hart86 West St.

CARTER STREET (BUTLER)

Katherine F. Brady, Prin., gr. 1	173 Chapel St.	\$1,750
Henrietta I. Grady, gr. 2	39 Lundberg St.	1,700
Helen R. Halloran, gr. 3	546 E. Merrimack St.	1,700

Janitor

Timothy Moynihan38 Whipple St.

CENTRAL STREET (Colburn)

Elizabeth G. Lawler, Prin., gr. 3, 2	260 High St.	\$1,750
Helen A. Drury, gr. 1	348 Wilder St.	1,700

Janitor

William P. Black900 Central St.

CHARLES STREET (Edson)

Alice T. Owens, Prin., gr. 3	4 Belmont St.	\$1,750
Margaret A. Harahan, gr. 1	114 Bellevue St.	1,700
Louise F. Mahoney, Sight-Saving Class	550 Westford St.	1,430
Temporary Teacher, gr. 2		

Janitor

James F. Leary249 E. Merrimack St.

ROLL OF TEACHERS

53

COLBURN (Colburn)

Anna M. Courtney, Prin., gr. 3	445	Merrimack St.	\$1,800
Elizabeth R. Connell, gr. 1	19	Fort Hill Ave.	1,700
Mary A. Hartley, Special	358	Walker St.	1,700
Gertrude B. McQuade, gr. 2	225	Summer St.	1,700

Janitor

John Scott732 Stevens St.

CROSS STREET (Bartlett)

Cross Street, between Fletcher and Mt. Vernon Streets

Ida J. Clarke, Prin., gr. 3	56	Grove St.	\$1,750
Anna T. Coburn, gr. 2	357	Westford St.	1,700
Katherine E. Kelley, gr. 1	434	Fletcher St.	1,700
Alice F. Seeton, gr. 1	159	Mammoth Road	1,700

Janitor

William H. Kennedy73 Fletcher St.

DOVER STREET (Morey)

Dover Street, between Middlesex and Grove Streets

Clara B. Horne, Prin., gr. 3	106	Chesnut St.	\$1,750
Anna H. Rouine, gr. 3	329	Lincoln St.	1,200
Clementine H. Bowers, gr. 2	60	Loring St.	1,700
Bertha Gardner, gr. 1	32	Robbins St.	1,700

Janitor

Frank J. Burch24 So. Canton St.

ELIOT (Edson)

Favor and Summer Streets

Ellen A. Stillings, Prin., gr. 1, 2	24	Bellevue St.	\$1,750
Ellen A. Corbett, gr. 3	32	Highland St.	1,700
Loyola McCann, gr. 1	17	Wentworth Ave.	1,700
Annie M. Robbins, gr. 2	116	Highland Ave.	1,700

Janitor

Charles J. McCabe318 High St.

FRANKLIN (Morey)

Branch and Middlesex Streets

Kate G. Jones, Prin., gr. 1	240	Jewett St.	\$1,750
Ethel H. Chalifoux, gr. 2	157	Mt. Vernon St.	1,700
Mary E. Richardson, gr. 3		Chelmsford	1,700

Janitor

Joseph Provost54 Queen St.

GRAND STREET (Lincoln)

Marion E. Greene, Prin., gr. 3	405	Westford St.	\$1,750
Jennie M. Bennett, gr. 2	38	Gates St.	1,700
*Mary J. Moynihan, gr. 1	28	Windsor St.	1,700

*Room in Howard Street School.

Janitor

Ernest McGowan91 West Third St.

ROLL OF TEACHERS

GREENHALGE

(In Greenhalge School)

Ruth Crowell, gr. 1	69	Fort Hill Ave.	\$1,700
Mary G. Dudley, gr. 2	126	Coburn St.	1,360
Blanche E. Marshall, gr. 1	445	Merrimack St.	1,700
Martha Rogers, gr. 3	131	Cumberland Road	1,700

KIRK STREET (Green)

Eliza A. Davis, Prin., gr. 3, 2, 1	100	Canton St.	\$1,750
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Janitor

Patrick J. Clark	199	Pleasant St.	
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LAKEVIEW AVENUE (Greenhalge)

Lakeview Avenue

Margaret J. McCluskey, Prin., gr. 3	246	Methuen St.	\$1,750
Anna F. Joyce, gr. 1	82	Eleventh St.	1,750
Katharine P. O'Brian, gr. 2	28	West Adams St.	1,700

Janitor

Joseph F. Nephen	39	West St.	
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LAURA LEE (Washington)

Plain and Powell Streets

Flora H. Sprague, Prin., gr. 3	110	Branch St.	\$1,800
Sara M. Dean, gr. 1, 2	14	Belmont St.	1,700
Lena M. Robinson, gr. 3, 2	68	So. Walker St.	1,700
Elizabeth H. Seede, gr. 1	24	Warwick St.	1,700
Lilla M. Stanley, gr. 2	2	Horn St.	1,700

Janitor

William J. Hunt	17	A St.	
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LEXINGTON AVENUE (Pawtucket)

Carrie M. Hart, Prin., gr. 3, 4, 5,	80	Tyler Park	\$1,750
M. Grace McCue, gr. 1, 2	252	Methuen St.	1,440

Janitor

Timothy F. Rohan	65	Claire St.	
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LONDON STREET (Butler)

London and Autumn Streets

Elizabeth R. Maguire, Prin., gr. 3	53	Nesmith St.	\$1,750
Margaret L. Hagerty, gr. 2, 1	17	Bellevue St.	1,700
*Mary F. Hill, gr. 2, 1		Chelmsford, Mass.	1,700

*Room in West London Street School.

Janitor

Peter J. Hunt	57	Greendale Avenue	
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ROLL OF TEACHERS

55

LYON STREET (Butler)

Lyon and Central Streets

Kate F. Murphy, Prin., gr. 3 and 2	870 Gorham St.	\$1,750
Katherine C. Early, gr. 1, 2	23 Oak St.	1,700
Mary J. McCarry, gr. 1, 2	1600 Gorham St.	1,700

Janitor

John J. Manchester	47 Hurd St.
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MIDDLESEX VILLAGE (Morey)

Middlesex and Cornell Streets

Harriet F. Wakefield, Prin., gr. 5, 6	66 Grove St.	\$1,750
Gertrude E. Dane, gr. 1 and 2	222 Gibson St.	1,700
Mary J. Reardon, gr. 3 and 4	16 Marginal St.	1,700

Janitor

P. Henry Driscoll	16 Edwards St.
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PAWTUCKET PRIMARY

(In Pawtucket School)

Mary E. Gordon, gr. 1	61 Loring St.	\$1,360
Eugenia L. Hogan, gr. 3	106 Avon St.	1,700
Maude M. Hardy, gr. 2	236 Pawtucket St.	1,700

PINE STREET (Morey)

Pine and Gibson Streets

Carrie J. Bailey, Prin. gr. 3	56 Loring St.	\$1,750
Helen D. Swain, gr. 1	418 Walker St.	1,700
Grace I. Washburn, gr. 2	390 Walker St.	1,700

Janitor

Joseph M. Hunt	169 Broadway
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POND STREET (Moody)

Pond and High Streets

Adelaide Crowley, Prin., gr. 1, 2	115 Fort Hill Ave.	\$1,750
*Maud E. Green, gr. 1	238 E. Merrimack St.	1,700
Mary I. Halloran, gr. 2	546 E. Merrimack St.	1,700
**Alice E. Ramsay, gr. 3	21 Myrtle St.	1,700

* Room in High Street School.

**Room in Moody School.

Janitor

Timothy F. Harrington	156 Andover St.
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POWELL STREET (Morey)

Powell Street, near Liberty

Viola A. Hamblett, Prin. gr. 1	243 Westford St.	\$1,750
Ellen J. Piper, gr. 3, 2	55 Norcross St.	1,700

Janitor

James A. Buckley	190 High St.
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ROLL OF TEACHERS

RIVERSIDE

(In Riverside School)

Charlotte O. Lowe, gr. 1, 2	No. Chelmsford	\$1,700
Etta M. Smith, gr. 2, 3	1118 Lawrence St.	1,700

SYCAMORE STREET (Moody)

Florence E. Rowell, Prin., gr. 3, 2	65 Huntington St.	\$1,750
Elizabeth B. Dame, gr. 2, 1	3 Parkview Ave.	1,700

Janitor

Dennis A. Harrington	495 High St.
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TENTH STREET (Varnum)

Cor. Tenth and Varnum Streets

Mary F. Beane, Prin., gr. 3	212 Tenth St.	\$1,750
Alice M. French, gr. 1	21 May St.	1,700
Alice A. Holtham, gr. 1	1107 Bridge St.	1,700
Fannie H. Murphy, gr. 2	42 Twelfth St.	1,700

Janitor

Winfield S. Cross	55 Seventh St.
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WASHINGTON

(In Washington School)

Mary V. Coughlin, gr. 1	15 Cross St.	\$1,440
Annie E. Irving, gr. 3, 2	783 Lawrence St.	1,700
Alberta M. McQuesten, gr. 2, 1	118 D St.	1,440

WEED STREET (Butler)

Lilla M. McEvoy, Prin., gr. 2, 3	210 Pawtucket St.	\$1,750
Temporary Assignment Grade I		

Janitor

John N. Palm	369 Lawrence St.
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WEST SIXTH STREET (Varnum)

West Sixth Street, between Coburn and Jewett Streets

Stella J. Allen, Prin., gr. 3	115 Third St.	\$1,750
Elizabeth F. Lamere, gr. 2	281 E. Merrimack St.	1,700
Mabel A. Metcalf, gr. 1	93 Vernon St.	1,700
Laura H. Palmer, gr. 1	78 Hildreth St.	1,700

Janitor

Adam McElroy	670 Bridge St.
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WORTHEN STREET (Green)

Worthen St. between Market and Broadway

Esther V. Green, Prin., gr. 2	434 Westford St.	\$1,750
Mary R. Marren, gr. 1	86 Rolfe St.	1,700
Mary E. Meehan, gr. 1	228 Worthen St.	1,700

Janitor

Charles E. Clark	11 Carter St.
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KINDERGARTENS

AGAWAM STREET (In Agawam Street Primary)

Sarah G. Sparks, Prin.,59 Elm St.\$1,500

BARTLETT (In Bartlett School)

Helen W. Noyes, Prin.102 Butman Road\$1,360
Evelyn L. Staples393 Wilder St.\$1,440

CENTRAL STREET (In Central Street Primary)

Gladys T. Parsons158 Hale St.\$1,280

CHARLES STREET (In Colburn Primary)

Mabel D. Nickerson, Prin.125 Clark Road\$1,500
S. Alice Knapp305 E. Merrimack St.1,440

DOVER STREET (In Dover Street Primary)

Elizabeth A. Wilson, Prin.15 So. Canton St.\$1,500

FRANKLIN (In Franklin Primary)

N. Grace Taylor, Prin.11 Ware St\$1,500
Dorothy Farnsworth67 Bellevue St.1,200

HOWARD STREET (In Howard Street Primary)

Gertrude A. Roberts, Prin.....Chelmsford, Mass., P. O. Box 61 ..\$1,500
Theresa L. White158 Dartmouth St.1,280

LAKEVIEW AVENUE (In Lakeview Avenue Primary)

Celina L. Lalime, Prin.28 Flemings\$1,500
Anna M. Ford260 High St.1,200

ROLL OF TEACHERS

LAURA LEE

(In Laura Lee Primary)

Katharine M. Crowley, Prin.	115	Fort Hill Ave.	\$1,500
Doris Childs	256	Gibson St.	1,440

MOODY

(In High Street Primary)

Marietta King, Prin.	205	Stackpole St.	\$1,500
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PAWTUCKET

Mammoth Road

Hortense Tabor, Prin.	82	Riverside St.	\$1,500
Helen L. Eveleth		Thorndike St.	1,280
Janitor			
Thomas J. McGee	83	White St.	

PINE STREET

(In Pine Street Primary)

Louie I. Smith, Prin.	549	Westford St.	\$1,500
Hortense M. Lamere	13	Ralph St.	\$1,310

VARNUM

(In Varnum School)

Ella M. Penn, Prin.	31	Sanders Ave.	\$1,500
Marion Simpson	67	Methuen St.	1,440

WEED STREET

(In Weed Street Primary)

Gertrude B. Crowley, Prin.	115	Fort Hill Ave.	\$1,500
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CONTINUATION SCHOOL

High School Annex

Department Head

Thomas A. Ginty, Director	117	Andover St.	\$3,100
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Clerk

Mary E. King	22	Walnut St.	1,000
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Academic Subjects

James J. Clinton	203	Salem St.	1,800
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Academic Subjects

Eugene J. Donovan	809	Lawrence St.	1,800
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Academic Subjects

Julia M. Driscoll	47	Grace St.	1,850
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Instructor in Woodworking Department

Charles W. Frost	635	Westford St.	1,800
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ROLL OF TEACHERS

59

M. Katherine Gallagher	Domestic Science 300 Wilder St.	1,680
William G. Hannafin	Instructor Machine Shop Practice 15 Sargent St.	1,800
Margaret A. Harrington	Teacher of Dressmaking and Millinery 211 Christian St.	1,680
Anna T. McCarron	Academic Subjects 228 High St.	1,850
Katherine C. O'Neill	Academic Subjects 175 Walker St.	1,850
William J. A. Reardon	Academic Subjects 16 Marginal St.	1,800
Elizabeth J. Regan	Teacher of Dressmaking 282 Concord St.	1,680
Raymond W. Slater	Head of Woodworking Department 1939 Middlesex St.	1,800
Major Colby T. Kittredge	Physical Director 48 So. Walker St.	500
Charles D. Foley	Academic Subjects 14 Ellsworth St.	1,800

VOCATIONAL SCHOOL

Mann School Building, Broadway

Principal

Thomas F. Fisher	121 Livingston Ave.	\$3,300
Margaret E. McCann	Assistant to Principal 196 Aiken Ave.	1,200
Maurice A. Butterfield	Sub-Master and Head of Machine Department 12 June St.	2,300
George H. Dozois	Instructor of Auto-Repairing 11 Spaulding St.	2,000
James T. Gearon	Teacher of Mechanical Drawing Y. M. C. A.	1,800
John J. Gildee	Head of Auto Department 112 D St.	2,100
John H. Gillick	Teacher of Academics 18 Fred St.	2,000
William B. Hilliard	Teacher of Shop Science 38 So. Loring St.	1,800
Chester W. McDonald	Head of Electrical Department 22 Bellevue St.	2,200
Andrew J. Moynihan, (temp.)	Instructor of Mechanical Drawing and Academics 19 Hampshire St.	1,700
Ernest A. Shafter	Electrical Instructor 373 Beacon St.	1,900
Harry M. Tabor, (temp.)	Electrical Instructor 251 E. Merrimack St.	1,800
Charles J. Welsh	Instructor Machine Shop Practice 77 Billings St.	2,000
Fred F. Wiggin	Head of Woodworking Department Chelmsford, Mass.	2,100
George P. Daley	Janitor 98 Walker St.	
Thomas F. Crowley	Oiler 79 West Fourth St.	

ROLL OF TEACHERS

GIRLS' DEPARTMENT

Morrill School Building

Department Head

Esther M. Dowaing	434 Westford St.	2,000
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Head of Cooking Department

Ruberta M. Bramhall	84 Tenth St.	1,900
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Teacher of Sewing

Agnes R. Burns	220 West Sixth St.	1,800
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Teacher of Academics

Flora Common	109 Beech St.	1,200
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Teacher of Millinery

Mary H. Mehan	Bridmar Chambers, Fletcher St. ..	1,800
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Head of Dressmaking Department

Anna M. O'Day	599 Central St.	1,900
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Teacher of Cooking

Edna J. Runquist (temp.)	16 Belmont St.	" 1,100
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Janitor

Theodore Towner	13 Third St.	
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SPECIAL TEACHERS

Musical Director

Frederick O. Blunt	392 Chelmsford St.	\$2,500
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Assistants in Music

Jessie M. Hagar	418 Walker St.	\$1,800
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Gertrude F. O'Brien	91 Riverside St.	1,550
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Supervisors of Drawing

Helen R. Abels	43 Nicollett St.	\$1,700
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Addie E. Edwards	32 Majestic Chambers	1,700
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Teachers of Sewing

Ida J. Flint	200 Liberty St.	\$1,800
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Louise H. McOsker	209 Stackpole St.	1,240
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Esther M. Owens	4 Belmont St.	1,700
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Grace E. Stevens	Chelmsford, Mass., P. O. Box 85 ..	1,700
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Manual Training

Ralph A. Luce	53 Oakland St.	\$2,200
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Arthur Lundwall	619 Stevens St.	2,100
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Physical Instructors in Elementary Schools

Major Walter R. Jeyes	67 Gates St.	\$1,800
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Nelle D. Horner	353 Westford St.	\$1,300
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Helen R. Gilbride	58 Tyler Park	
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Supervisors of Penmanship

Fred Albinson	8 Newbury St.	\$ 500
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Margaret M. Garvey	144 Cumberland Rd.	1,400
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Albert D. Mack	20 Wentworth Ave.	500
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James A. Shanley	364 Lawrence St.	500
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Dental Clinic

In Worthen Street School

Dr. E. A. Kent	11 Harris Ave.	\$1,000
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Assistant to Dentist

Eva M. Lantagne	14 Albion St.	600
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SCHOOL PHYSICIANS

Giving Names of Schools Supervised

C. Stoye Baker, M. D.	77 Mansur St.	\$500
	Bartlett, Dover St. and Middlesex Village.	
John F. Boyle, M. D.,	32 Whipple St.	400
	Butler, Lyon St., Carter St., Weed St., London St. and Central St.	
James J. Cassidy, M. D.	111 Riverside St. ..	400
	Green, Worthen St., Kirk St., Cabot St., Franklin. Cross St., Vocational— Girls' Department.	
Winifred M. Wools-Devine, M. D.	27 Parkview Ave. ..	400
	Pawtucket. Greenhalge and Lexington Ave.	
George O. Lavallee, M. D.	790 Merrimack St. ..	400
	Vanrum, West Sixth St., Tenth St. and Lakeview Ave.	
Charles M. Roughan, M. D.	105 Merrill Ave. ..	400
	Moody, Riverside, Pond St., Agawam St., Sycamore St. and Vocational— Boys' Department.	
Emma Y. Slaughter, M. D.	545 School St.	400
	Colburn Gr., Colburn Pri. Edson, Charles St. and Ames St.	
Forster H. Smith, M. D.	West Meadow Road.	400
	Lincoln, Laura Lee, Grand St., Eliot. Howard St. and Powell St.	
Edward O. Tabor, M. D.	131 Methuen St.	400
	Morey, Washington and Pine St.	

SCHOOL NURSES

Marietta M. Dwyer	23 Sidney St.	\$1,200
Mary Etta Frazier	54 Starbird St.	1,200
Rose Lettrell	13 Harrison St.	1,200
Anna J. O'Dwyer	148 Midland St.	1,200

Absent on Leave

Quennie A. Manchester, High School.	Mary E. Quirbach, High School.
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Permanent Substitutes

Alice K. Dinneen, 25 Oliver St.	Mary R. Maguire, 62 Gerrish Ave., Dracut, Mass.
Natalie H. McQuade, 102 Cross St.	Marion E. McMaster, 56 Rolfe St.
Loretta V. Gardner, 795 Bridge St.	Ethel D. Gordon, 61 Loring St.
Teresa V. Lew, 89 Mt. Hope St.	Helen A. Castles, 154 Avon St.
Hazel Stevens, High St., Chelmsford, Mass.	Margaret F. Bruin, 81 Mt. Vernon St.
Helen M. Crowley, 254 Parkview Ave.	Henrietta Condon, 96 Midland St.
Mildred Clevette, 225 Summer St.	Georgianna P. Keith, 70 Third St.
Alice B. Ingham, 62 Robbins St.	Jessie M. Agnew, West Chelmsford, Mass.
Helen O'Hare, 203 Pleasant St.	Irene H. Dowd, 1354 Gorham St.
V. May Carlson, 105 Hoyt Ave.	Alice M. McDermott, 12 Courtland St.
M. Alice Murphy, 74 Harris Ave.	Agnes A. McGowan, 36 Varney St.
Kathryn Flahavan, 109 South Walker St.	
Catherine G. Boddy, 51 Starbird St.	

Unassigned Janitors

Patrick H. Kelley,	31 Claire St.
George McWilliams	47 Agawam St.

EVENING SCHOOLS

High School

Henry H. Harris, Principal	93	Eleventh St.
E. Helena Rivet, Principal's Assistant	271	Beacon St.
Orton E. Beach,	858	Chelmsford St.
Stenography and Speed		
Albertine Bernier	91	West Sixth St.
Stenography II		
Elmer G. Brennon	97	Georgia Ave.
Commercial Arithmetic, Algebra and Geometry		
M. Mabel Cassidy	44	B St.
Spelling, Ancient and American History		
Josephine A. Charbonneau	218	Riverside St.
Stenography I		
Alice L. Cluin	130	Fort Hil Ave.
Elementary English		
James F. Conway	113	Wentworth Ave.
Physics and Chemistry		
Grace D. Donovan	256	Branch St.
Advanced English and Advanced Spelling		
Ruth L. Eaton	59	Pine St.
Typewriting		
Mary A. Egan	29	Cady St.
Stenography I		
Margaret Garvey	144	Cumberland Rd.
Penmanship		
Frank C. Gilbert	119	Stevens St.
Bookkeeping I		
Peter J. Gulesian		Blanchard Ave., Billerica
Manual Training and Mechanical Drawing		
Elizabeth Irish	11	Willow St.
Latin and Literature		
Raymond J. Kenney	1	West View St.
Stenography I		
Charles A. King	4	Astor St.
Bookkeeping II		
Sara Laporte	76	June St.
French		
Albert D. Mack	20	Wentworth Ave.
Head of Commercial Department		
John D. McKinley	474	Beacon St.
Civil Service		
Loretto A. McManmon	57	Second Ave.
Commercial Geography, Advanced Grammar and Civil Government		
Addie B. Merrill	465	Bridge St.
Elementary Arithmetic		
Ruth F. Murphy	56	Arlington St.
Stenography I		
Adelaide E. Noyes	245	Foster St.
Elocution		
Frances O'Neil	12	Osgood St.
Elementary Arithmetic		
Flora A. Owen	42	Huntington St.
Typewriting		

ROLL OF TEACHERS

63

Lewis A. Putnam	19	Eighth Ave.
	Stenography III	
Joseph G. Pyne	116	School St.
	Advanced Arithmetic and Greek	
Charles J. Rodgers	164	Pine St.
	Manual Training	
Ruth L. Sawyer	169	Fairmount St.
	Commercial Arithmetic, Algebra and Advanced Grammar	
Charles E. Seede	56	Fairgrove St.
	Manual Training	
Margaret L. Seeton	12	Third Ave.
	Stenography II	
James A. Shanley	364	Lawrence St.
	Bookkeeping I	
M. Beatrice Shea	267	Walker St.
	Penmanship	
Alice O. Stickney	599	School St.
	Rhetoric and Graduation English	
Morton A. Sturtevant	50	Rea St.
	Business Correspondence and Spelling	
Sarah Taff	235	Stackpole St.
	Penmanship	
Edward J. Thompson		Chelmsford Centre
	Physiology, Spanish and Advanced Arithmetic	
Mary E. Tobin	52	Highland St.
	Elementary English	

Elementary Evening Schools

BUTLER

Charles E. DeLorme, Prin.	134	Bellevue St.
Mary E. Lane	12	Ellsworth St.
Theresa R. Glynn	196	Pleasant St.

COLBURN

Helen M. Shean, Prin.	260	High St.
Sadie A. Connor	73	Pleasant St.
Anna M. Ford	260	High St.
Margaret C. Fox	8	Eddy St.
Vera E. Groves	362	E. Merrimack St.
Gertrude A. Hession	178	Perry St.
Agnes A. McGowan	36	Varney St.
Bride T. Sweeney	138	Pleasant St.
Mary C. Timmons	22	Ash St.

EDSON

Leo A. King, Prin.	4	Astor St.
Hazel Gardner	15	Columbus Ave.
Loretta V. Gardner	795	Bridge St.
Marietta G. Gormley	22	Lyon St.
Henrietta I. Grady	39	Lundberg St.
Delia C. Maloney	70	Elm St.
Sadie E. Tully	111	Westford St.

ROLL OF TEACHERS

FRANKLIN

Annie V. Donoghue	111	Wesley St.
Elizabeth H. Flahavan	109	So. Walker St.

GREEN

John E. Barr, Prin.	168	Sixth St.
Hannah M. Barrows	66	Hanks St.
Carrie L. Brown	92	Jenness St.
Mildred F. Colloty	15	Huntington St.
Mary V. Coughlin	15	Cross St.
Anna M. Courtney	445	Merrimack St.
Elizabeth B. Dame	3	Parkview Ave.
Esther G. Donlan	756	Westford St.
Katherine C. Early	23	Oak St.
Agnes T. Fay	123	Third St.
Mary A. Fay	123	Third St.
Maud E. Green	238	E. Merrimack St.
Elizabeth G. Lawler	260	High St.
Mary R. Marren	86	Rolie St.
Alice A. Masterson	14	Oakland St.
Elizabeth Provencher	22	West Bowers St.
Alice E. Ramsay	21	Myrtle St.
Mary J. Reardon	16	Marginal St.
Julia B. Riordan	27	Woodward Ave.
Etta M. Smith	1118	Lawrence St.
H. Madeline Sullivan	250	Rogers St.

Rooms in Cabot Street School (For Girls Only).

Charlotte O. Lowe	2010	Middlesex St.
Ellen F. Lynch	104	School St.

GREENHALGE

William W. Dennett, Prin.	400	Stevens St.
Catherine T. Gillick	998	Lakeview Ave.
Annie M. Robbins	116	Highland Ave.
Martha Rogers	131	Cumberland Road

LINCOLN

D. Murray Cummings, Prin.	64	Temple St.
Dorothy Driscoll	86	Chauncey Ave.
Kathryn H. Flahavan	109	So. Walker St.
Mary E. Flahavan	109	So. Walker St.
Harriet L. McAloon	112	Sixth St.
Mary F. Morris	5	Rosemary Ave.

VARNUM

Florence E. Archibald	112	Fremont St.
Rose A. Dowd	127	Beacon St.
Ruth F. Hathaway	106	Durant St.

Evening Vocational Schools

MEN'S DEPARTMENT

Thomas F. Fisher, Director	121	Livingston Ave.
Margaret E. McCann, Clerk	196	Aiken Ave.

Automobile Department

George H. Dozois	11	Spaulding St.
John J. Gildee	112	D St.

Carpentry Department

John Briscoe		Dracut, Mass.
Fred F. Wiggin		Chelmsford, Mass.

ROLL OF TEACHERS

65

Electrical Department

Chester W. McDonald22 Bellevue St.

Engineering

Edwin C. WellsDracut, Mass.

Fireman

Daniel C. Callahan22 Second Ave.

Machine Department

Maurice A. Butterfield12 June St.
 Eddie Bean1209 Middlesex St.
 Michael Donahue381 Dutton St.
 Richard Frederick1079 Middlesex St.
 William B. Hilliard38 South Loring St.
 Charles J. Welsh77 Billings St.
 Guy Whitney132 B St.

Plumbing

John H. McGuinness682 Broadway

GIRL'S DEPARTMENT

Practical Arts

Esther M. Downing, Dept. Head434 Westford St.
 Gabrielle Paquin, Clerk161 Avon St.

Cooking Department

Ruberta Bramhall, Dept. Head84 Tenth St.
 Anna T. Coburn357 Westford St.
 Mrs. Mary Conroy94 Andrews St.
 Mrs. Anna Dennett400 Stevens St.
 Mrs. Helen Graves270 Varnum Ave.
 Mrs. Katherine Humphrey165 Humphrey St.
 Mrs. Helen King64 Hanks St.
 Katherine King4 Astor St.
 Mabel Metcalf93 Vernon St.
 Modwena Rowlandson136 Parkview Ave.
 Edna J. Rundquist16 Belmont St.

Dressmaking Department

Anna M. O'Day, Dept. Head599 Central St.
 Caro Allan476 Varnum Ave.
 Mrs. Della Barnes1083 Gorham St.
 Annie Boyle32 Whipple St.
 Mary V. Bradley903 Gorham St.
 Agnes R. Burns220 West Sixth St.
 Katherine Burns97 Andrews St.
 Mrs. Carrie Cardell48 South Loring St.
 Mrs. Mary E. Durant209 Summer St.
 Mrs. Nora Early256 E. Merrimack St.
 Madeleine Hartigan137 Moore St.
 Eleanor Kivlan73 Moore St.
 Katherine McDonald5 Varney St.
 Margaret McGurn110 South Walker St.
 Mrs. Minnie Moran43 Fifth St.
 Orina B. Mongrain1050 Bridge St.
 Mary F. Rourke22 Abbott St.
 Nellie Rourke33 Marion St.
 Mrs. Helen Rouse201 Summer St.
 Elzina Secord48 Florence Ave.
 Marguerite M. Turgeon282 Westford St.
 Rose Ward635 Broadway
 Helen Zollinger19 Maryland Ave.

Millinery

Mary H. Mehan, Dept. Head	Bridmar Cham., Fletcher St.
Cordelia Barrows	19 Newhall St.
Mrs. Hilda Benoit	152 Jewett St.
Evangeline Bertrand	Dracut, Mass.
Mrs. Mary Devine	231 School St.
Mrs. Ella Donohue	23 Huntington St.
Lena Gendron	17 Burns St.
Evelyn Hebert	18 Third St.
Katherine Keyes	62 Pine St.
Mae Kelley	101 Pleasant St.
Lena Lowry	43 Jewett St.
Arthemise Hotin	709 Merrimack St.
Mrs. Agnes Weston	137 Stackpole St.

Home Nursing

Marietta Dwyer	23 Sidney St.
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SALARY SCHEDULE
In Effect From January 1, 1921

High School

Head Master	\$4,300
Sub-Masters	3,400
Junior Masters	3,000
Junior Sub-Masters	2,700
Men Teachers	\$1,700 to \$2,500

First year, \$1,700; second year, \$1,830; third year, \$1,960; fourth year, \$2,090; fifth year, \$2,220; sixth year, \$2,350; seventh year \$2,500; department head, \$100 in excess of schedule salary.

Women Teachers	\$1,400 to \$2,000
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First year, \$1,400; second year, \$1,500; third year, \$1,600; fourth year, \$1,700; fifth year, \$1,800; sixth year, \$1,900; seventh year, \$2,000; department head, \$100 in excess of schedule salary.

Elementary Schools

Masters (Maximum reached in seventh year)	\$1,920 to \$3,100
Teachers	1,200 to 1,700

First year, \$1,200; second year, \$1,280; third year, \$1,360; fourth year, \$1,440; fifth year, \$1,520; sixth year, \$1,600; seventh year, \$1,700.

Principals of Primary Schools

Primary Principals \$50 above schedule.

Principal of Laura Lee School \$100 above schedule.

Supervisor of Primary grades, \$2,100.

Kindergartens

Principals	to \$1,500
Assistants	\$1,200 to 1,440

First year, \$1,200; second year, \$1,280; third year, \$1,360; fourth year, \$1,440.

Temporary Teachers

Men, per day	\$6.00
Women, per day	6.00
Kindergartens, per day	3.00

Special Teachers

Drawing	to \$1,550
Music	1,550 to 2,500
Sewing	1,240 to 1,640

Instructors in Open Air and Sight Saving Classes to receive \$150 above schedule.

Instructors in Domestic Science in Elementary Schools to receive \$100 above schedule.

The salary of the Director of the Vocational School to be \$3300.

The salary of Margaret McCann, clerk in the Vocational School to be at the rate of \$1200 per year.

Vocational School

Men Teachers \$1,600 to \$2,200

First year, \$1,600; second year, \$1,700; third year, \$1,800; fourth year, \$1,900; fifth year, \$2,000; sixth year, \$2,100; seventh year, \$2,200.

Women Teachers \$1,200 to \$1,800

First year, \$1,200; second year, \$1,300; third year, \$1,400; fourth year, \$1,500; fifth year, \$1,600; sixth year, \$1,700; seventh year, \$1,800. Those in Supervisory positions to receive \$100 above schedule.

Continuation School

Director to \$3,100

Clerk \$1,000 to 1,200

First year, \$1,000; second year, \$1,100; third year, \$1,200.

Men Teachers \$1,600 to \$2,200

First year, \$1,600; second year, \$1,700; third year, \$1,800; fourth year, \$1,900; fifth year, \$2,000; sixth year, \$2,100; seventh year, \$2,200.

Women Teachers \$1,300 to \$1,850

First year, \$1,300; second year, \$1,400; third year, \$1,500; fourth year, \$1,600; fifth year, \$1,700; sixth year, \$1,800; seventh year, \$1,850.

Instructors in Manual Training

First year, \$1,800; second year, \$1,900; third year, \$2,000; fourth year, \$2,100; fifth year, \$2,200.

Part time supervisors in Penmanship in Elementary Schools to receive \$500 per year.

Full time supervisors in Penmanship and Elementary Schools to receive \$200 above schedule.

Pay of permanent substitutes in Elementary Schools and temporary teachers in the High, Vocational and Continuation Schools to be at the rate of \$6.00 per day.

TEACHERS' CERTIFICATES

Granted Since January 1, 1921.

First Grade

Millard S. Darling, Amherst College, 1920	Lowell, Mass.
Arthur J. Dows, Brown University, 1919	Lowell, Mass.
Seton Rand Droppers, Harvard University, 1919	Lowell, Mass.
Alfred Fletcher, Mass. Inst. of Technology, 1921	Lowell, Mass.
James H. Riley, Boston College, 1919	Lowell, Mass.

Second Grade

Ruth J. Boulger, St. Elizabeth's, 1921	Lowell, Mass.
Gladys Hill, Smith College, 1921	Lowell, Mass.
M. Katherine Gallagher, Simmons College, 1920	Lowell, Mass.
Louise H. McKenna, Trinity College, 1921	Lowell, Mass.
Etheldred Wilmott, Mt. Holyoke College, 1921	Lowell, Mass.

Third Grade

Jessie M. Agnew	Lowell, Normal
Catherine G. Boddy	Lowell, Normal
Margaret F. Bruin	Lowell Normal
Mary J. Campbell	Lowell Normal
V. May Carlson	Lowell Normal
Helen A. Castles	Lowell Normal
Mildred M. Clevette	Lowell Normal
Henrietta G. Condon	Lowell Normal
Helen M. Crowley	Lowell Normal
Alice K. Dinneen	Lowell Normal
Irene H. Dowd	Lowell Normal
Kathryn H. Flahavan	Lowell Normal
Jennie T. Frawley	Lowell Normal
Loretta V. Gardner	Lowell Normal
Ethel D. Gordon	Lowell Normal
Alice B. Ingham	Lowell Normal
Georgianna P. Keith	Lowell Normal
Annabelle V. Keyes	Lowell Normal
Teresa G. Lew	Lowell Normal
Alice McDermott	Lowell Normal
Agnes A. McGowan	Lowell Normal
Marion E. McMaster	Lowell Normal
Natalie H. McQuade	Lowell Normal
Mary R. Maguire	Lowell Normal
M. Alice Murphy	Lowell Normal
Helen C. O'Hare	Lowell Normal

Third Grade—Continued

Elsie E. Perron	Lowell Normal
Minnie L. Pihl	Lowell Normal
Anna H. Rouine	Lowell Normal
Hazel Stevens	Lowell Normal

Fourth Grade

Elizabeth F. Baldwin	Miss Neil's Kindg. Normal, 1921
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Authorized Text Books

FOR

High and Elementary Schools

Adopted by the School Committee of Lowell, Mass., June, 1913

HIGH SCHOOL

ENGLISH

Adopted

Rhetoric	Brooks & Hubbard	American Book Co.
Enlarged Practice Book	Hitchcock	Henry Holt & Co.
The Odyssey	Church	The MacMillan Co.
Buehler	Gray	American Book Co.
Tales from Shakespeare	Lamb	Ginn & Co.
Last of the Mohicans	Cooper	D. C. Heath & Co.
House of Seven Gables	Hawthorne	Houghton, Mifflin & Co.
Twice Told Tales	Hawthorne	Houghton, Mifflin & Co.
Illiad	Pope	Sibley & Ducker
Illiad	Bryant	Houghton, Mifflin & Co.
Silas Marner	Eliot	Ginn & Co.
Julius Caesar	Shakespeare	D. C. Heath & Co.
Merchant of Venice	Shakespeare	Leach, Shewell & Sanborn
Macbeth	Shakespeare	Ginn & Co.
Lady of the Lake	Scott	American Book Co.
Ivanhoe	Scott	American Book Co.
Life of Johnson	Macaulay	Ginn & Co.
Sir Roger De Coverley	Addison & Steele	American Book Co.
L'Allegro and Ill Penseroso	Milton	Ginn & Co.
Speech on Conciliation with America	Burke	Houghton, Mifflin & Co.
Idylls of the King	Tennyson	Ginn & Co.
Vision of Sir Launfal	Lowell	Houghton, Mifflin & Co.
Ancient Mariner	Coleridge	The MacMillan Co.
Chaucer to Arnold	George	The MacMillan Co.
Essays or Elia	Lamp	Houghton, Mifflin & Co.
Tales of a Wayside Inn	Longfellow	Houghton, Mifflin & Co.
Grandmother's Story	Holmes	Houghton, Mifflin & Co.

Supplementary

Rhetoric	Shackford-Judson	Sanborn & Co.
Handbook of Composition	Wooley	D. C. Heath & Co.
Exercises in English	Strang	D. C. Heath & Co.
Students' Hist. of Eng. Literature	Simonds	Houghton, Mifflin & Co.
Introduction to Eng. Literature	Pancoast	Henry Holt & Co.
Self-Cultivation in English	Palmer	Houghton, Mifflin & Co.
Life of Goldsmith	Irving	Ginn & Co.
Tales of a Traveler	Irving	Longmans, Green & Co.
Palamon and Arcite	Dryden	Leach, Shewell & Sanborn
Schrab and Rustum	Arnold	Henry Holt & Co.
Prologue to the Canterbury Tales	Chancer	Houghton, Mifflin & Co.
Essays on Clive and Hastings	Macaulay	Ginn & Co.
Washington's Farewell Address	Foster	Houghton, Mifflin & Co.
Autobiography of Benj. Franklin		American Book Co.
Selected Essays	Emerson	American Book Co.
She Stoops to Conquer	Goldsmith	Houghton, Mifflin & Co.
Twelfth Night	Shakespeare	Houghton, Mifflin & Co.
King Lear	Shakespeare	D. C. Heath & Co.
Coriolanus	Shakespeare	Ginn & Co.
Henry Fifth	Shakespeare	Houghton, Mifflin & Co.
Midsummer's Night's Dream	Shakespeare	D. C. Heath & Co.
New Practice Book	Hitchcock	Henry Holt & Co.

High School English	Brubacher & Snyder	Chas. E. Merrill Co.
Business English	Davis & Lingham	Ginn & Co.
Rhetoric	Scott & Denny	Allyn & Bacon
Selections from Lincoln	Beave	Chas. E. Merrill Co.
Life of Johnson	Boswell	D. C. Heath & Co.
		Ginn & Co.
Pilgrim's Progress	Bunyan	American Book Co.
Birds & Bees	Burroughs	Houghton, Mifflin & Co.
Tale of Two Cities	Dickens	D. C. Heath Co.
American Poems	Gaston	Chas. E. Merrill Co.
Vicar of Wakefield	Goldsmith	American Book Co.
		Allyn & Bacon
Sketch Book	Irving	Houghton, Mifflin & Co.
Selected Ballads and Lyrics	Lodge	Houghton, Mifflin & Co.
Leaflets	Lowell	Houghton, Mifflin & Co.
Old Testament Narratives	Nettleton	Henry Holt & Co.
Odyssey	Palmer	Houghton, Mifflin & Co.
Poems and Tales	Poe	Houghton, Mifflin & Co.
Marmion	Scott	American Book Co.
Kenilworth	Scott	A. L. Burt
Woodstock	Scott	Houghton, Mifflin & Co.
Guy Mannering	Scott	Ginn & Co.
As You Like It	Shakespeare	Houghton, Mifflin & Co.
Othello	Shakespeare	American Book Co.
Tempest	Shakespeare	Houghton, Mifflin & Co.
Treasure Island	Stevenson	D. C. Heath Co.
Princess	Tennyson	B. H. Sanborn & Co.
Essay on Burns	Carlyle	B. H. Sanborn & Co.
History of the Plague	Defoe	Longmans, Green Co.
Paradise Lost	Milton	B. H. Sanborn & Co.
Golden Treasury	Palgrave	Ginn & Co.
Life of Nelson	Southey	Longmans, Green Co.
Forum of Democracy	Watkins	Allyn & Bacon
Short Stories	Moulton	MacMillan & Co.
Short Stories	Hart & Perrv	Houghton, Mifflin & Co.
Flight of a Tartar Tribe	DeQuincey	B. H. Sanborn & Co.

FRENCH

Adopted

French Dictionary		D. C. Heath Co.
French Grammar	Fraser & Squair	D. C. Heath Co.
French Reader	Super	D. C. Heath Co.
French Composition	Grandgent	D. C. Heath Co.
French Syntax and Composition	Bouvet	D. C. Heath Co.
Contes et Legendes	Guerber	American Book Co.
Sight Reading	Rogers	American Book Co.

Supplementary

La Chute	Hugo	D. C. Heath Co.
French Lyrics	Bowen	D. C. Heath Co.
Exercises for Composition	Grandgent & Kimball	D. C. Heath Co.
Scenes de la Revolution Francaise	Lamartine	American Book Co.
Fables	La Fontaine	American Book Co.
Douze Contes Nouveaux	Fontaine	American Book Co.
French Grammar	Worman	American Book Co.
La Tache Du Petit Pierre	Mairet	American Book Co.
Selected Stories	Daudet	American Book Co.
Mademoiselle de la Seigliere	Sandeau	American Book Co.
Readings from French History	Super	Allyn & Bacon
French Composition	Blouet	Schoenhof
Grammaire Francaise	Larive et Fleury	Schoenhof
French Reader	Kuhns	Henry Holt & Co.
Le Dix-Septieme Siecle	Duval & Williams	Henry Holt & Co.
Simple French	Francois & Giroux	Henry Holt & Co.
La Grammaire	Labiche	Ginn & Co.
Intermediate French	Jacques	Ginn & Co.
Colomba	Merimee	Ginn & Co.
Le Voyage de Monsieur Perrichon	Labiche et Martin	Ginn & Co.

Complete Course

French Grammar Shorter Course	Fraser & Squair	D. C. Heath Co.
Le Tour de la France par Deux Enfants	Bruno	American Book Co.
Contes et Legendes, H	Guerber	American Book Co.
Commercial French Reader		Pitman
Drames et Comedies		American Book Co.
Le Premier Livre	Meras	American Book Co.
La Belle France	Monvert	Allyn & Bacon
Les Oberle	Bazin	Henry Holt & Co.
Historical French Reader		American Book Co.
French Newspaper Reader		American Book Co.
La Poudre aux Yeux	Labiche et Martin	American Book Co.
Contes Choisis	Bazin	D. C. Heath Co.
La France qui Travaille		D. C. Heath Co.

GERMAN

Adopted

German Dictionary	Heath	D. C. Heath Co.
Prose Composition	Harris	D. C. Heath Co.
German Lessons	Harris	D. C. Heath Co.
German Composition	Wesselhoeft	D. C. Heath Co.
Wilhelm Tell	Schiller	D. C. Heath Co.
Immensee	Storm	D. C. Heath Co.

Supplementary

Words of Frequent Occurrence	Bierwirth	Henry Holt & Co.
Zerbrochener Krug	Zschokke	D. C. Heath Co.
Composition	Fasnacht	The MacMillan Co.
Der Neffe als Onkel	Schiller	D. C. Heath Co.
L'Arrabbiata	Heyse	American Book Co.
Zwischen Himmel und Erde	Ludwig	D. C. Heath Co.
Das Edle Blut	Wildenbruch	Henry Holt & Co.
Der Schwiegersohn	Baumbach	Henry Holt & Co.
Der Stumme Ratsherr	Richl	D. C. Heath Co.
Composition	Pope	Henry Holt & Co.
Das Spiehnannskind	Richl	D. C. Heath Co.

MATHEMATICS

Adopted

Plane Geometry	Wentworth & Smith	Ginn & Co.
Secondary Algebra	Wells	D. C. Heath Co.
Essentials of Algebra	Wells	D. C. Heath Co.
Elementary Algebra	Wentworth	Ginn & Co.
Trigonometry	Wentworth	Ginn & Co.
Elementary Algebra	Wells	
Plane Geometry	Wentworth & Smith	Ginn & Co.
Solid Geometry	Wentworth & Smith	Ginn & Co.
Plane Geometry	Wentworth	Ginn & Co.

Supplementary

Plane Geometry	Schultz & Sevenoak	The MacMillan Co.
McCurdy Exercises	McCurdy	D. C. Heath Co.
Essentials of Plane Geometry	Wells	D. C. Heath Co.
Essentials of Solid Geometry	Wells	D. C. Heath Co.
First Course in Algebra	Wells	D. C. Heath Co.
Exercises in Algebra	McCurdy	
Review of Algebra	Rivenburg	
Algebra Exercises	Robbins	
Plane Geometry (Reviews)	MacGibbon	Sibley
Exercises in Alg. & Geom.	Hale	Heath

GREEK

Adopted

First Greek Book	White	Ginn & Co.
Xenophon's Anabasis	Goodwin & White	Ginn & Co.
Greek Grammar	Goodwin	Ginn & Co.
Greek-English Lexicon	Liddell & Scott	American Book Co.
Odyssey, Books I-VI	Perrin & Seymour	Ginn & Co.
Greek Prose Composition	Pearson	American Book Co.

Supplementary

Xenophon's Hellenica, 1-IV	Manatt	Ginn & Co.
Iliad, Books 1-VI	Seymour	Ginn & Co.
Herodotus, Vol. II	Dietsch	Teubner Edition, Leipsic, Germany

LATIN

Adopted

Latin Grammar	Allen & Greenough	Ginn & Co.
Cicero	Allen & Greenough	Ginn & Co.
Virgil	Allen & Kittredge	Ginn & Co.
Latin Prose Composition	Daniell-Brown	B. H. Sanborn & Co.
New Method of Caesar	Potter	B. H. Sanborn & Co.

Supplementary

Cicero Texts		American Book Co.
Virgil Texts		American Book Co.
Caesar Texts		American Book Co.
Sallust Texts		American Book Co.
First Book in Latin	Inglis & Prettyman	The MacMillan Co.
Caesar	Allen & Greenough	Ginn & Co.
Ovid	Allen & Greenough	Ginn & Co.
Nepos	Barss	MacMillan Co.
Latin Composition	Baker & Inglis	American Book Co.
A Year in Latin	W. A. Montgomery	Row, Peterson & Co.

COMMERCIAL

Adopted

Modern Illustrative Bookkeeping	Williams & Rogers	American Book Co.
Seventy Lessons in Spelling	Williams & Rogers	American Book Co.
Modern Business Penmanship	Mills	American Book Co.
Commercial Law	Gano	American Book Co.
Commercial Arithmetic	Moore	American Book Co.
Mental Arithmetic	Thurston	American Book Co.
Mental Arithmetic	Thompson	American Book Co.
Commercial Geography	Adams	D. Appleton Co.
Gregg Shorthand		Gregg Publishing Co.
Rational Typewriting		Gregg Publishing Co.

Supplementary

Com. and Industrial Geography	Keller & Bishop	Ginn & Co.
Words		Gregg Publishing Co.
Zaner Method Manual		Zaner & Bloser Co.
Speed Studies		Gregg Publishing Co.
Graded Readings in Gregg Shorthand		Gregg Publishing Co.
Progressive Exercises		Gregg Publishing Co.
Practical Drills in Shorthand Penmanship		Gregg Publishing Co.
Advance Practice in Gregg Shorthand		Gregg Publishing Co.

SPANISH

Worman's First Spanish Book		American Book Co.
Worman's Second Spanish Book		American Book Co.
Elementary Spanish Grammar	Espinosa & Allen	American Book Co.
Lecturas Faciles	Wilkins	Silver Burdett & Co.
Poco a Poco	Hall	World Book Co.
Spanish Tales for Beginners	Hills	Henry Holt Co.
Cuentos Modernos	Johnson	American Book Co.
Spanish Dictionary	Appleton	Appleton Pub. Co.

HISTORY

Adopted

History of the United States	Fiske	Houghton, Mifflin & Co.
Brief History of the United States	McMaster	American Book Co.
Short History of Ancient Times	Myers	Ginn & Co.
History of the Ancient World	Botsford	The MacMillan Co.
Roman History	Morey	American Book Co.
Leading Facts of English History	Montgomery	Ginn & Co.
Ireland's Story	Johnston & Spencer	Houghton, Mifflin & Co.

Supplementary

American History	Muzzey	Ginn & Co.
History of the United States	Adams & Trent	Allyn & Bacon
The Ancient World	West	Allyn & Bacon
A History of Greek Art	Tarbell	The MacMillan Co.
Greek Literature	Jebb	American Book Co.
A Short History of England	Andrews	Allyn & Bacon
History of the American Nation	McLaughlin	Appleton
Readings in History of the Nation	McLaughlin	Appleton
Short History of the U. S.	Bassett	MacMillan Co.
Gov't of N. E. States	Butler	Scribner
Manual of the Constitution	Andrew	American Book Co.
Civil Government	Martin	American Book Co.
New Civics	Ashley	MacMillan Co.
A Short History of England	Andrews	Allyn & Bacon
Ancient History	Webster	D. C. Heath Co.
Greek Leaders	Hopkinson	Houghton, Mifflin & Co.

CHEMISTRY, PHYSICS AND OTHER SCIENCES

Adopted

Descriptive Chemistry	Newell	D. C. Heath Co.
Qualitative Analysis	Irish	American Book Co.
A Text Book of Physics	Hall & Bergen	Henry Holt & Co.
First Principles of Physics	Carhart & Chute	Allyn & Bacon
Field, Forest & Garden Botany	Gray	American Book Co.
Outlines of Botany	Leavitt	American Book Co.
Plant Studies	Coulter	D. Appleton & Co.
Plant Studies	Meier	Ginn & Co.
Practical Physiology	Blaisdell	Ginn & Co.
Human Body	Martin	Henry Holt & Co.
Lessons in Astronomy	Young	Ginn & Co.
Text Book of Geology	Brigham	D. Appleton & Co.
Applied Physics	Hawkins	Longmans, Green & Co.
Advanced Physiology and Hygiene	Corn & Budington	Silver, Burdett & Co.
General Chemistry	Newell	D. C. Heath & Co.
Practical Physics	Black & Davis	MacMillan Co.

BOOKS FOR ELEMENTARY SCHOOLS

Adopted June, 1913.

Algebra

Wentworth's First StepsGinn & Co.

Arithmetics

Morey Elementary Part I.....Scribner's Sons
 Morey Elementary Part IIScribner's Sons
 Morey AdvancedScribner's Sons
 Werner MentalAmerican Book Co.

Dictionaries

Worcester PrimaryJ. B. Lippincott Co.
 Worcester ComprehensiveJ. B. Lippincott Co.

Geographies

Frye's First Step in GeographyGinn & Co.
 Frye's Leading Facts of Geography, Part IGinn & Co.
 Frye's Leading Facts of Geography, Part IIGinn & Co.
 Frye's Grammar School GeographyGinn & Co.
 Tarr & McMurry Geography, Book IThe MacMillan Co.
 Tarr & McMurry Geography, Book IIThe MacMillan Co.
 Tarr & McMurry Geography, Book I, Part IThe MacMillan Co.
 Tarr & McMurry Geography, Book I, Part IIThe MacMillan Co.
 Tarr & McMurry Geography, Book II Part IThe MacMillan Co.
 Tarr & McMurry Geography, Book II, Part IIThe MacMillan Co.

Geographical Readers

Carpenter's AfricaAmerican Book Co.
 Carpenter's AsiaAmerican Book Co.
 Carpenter's AustraliaAmerican Book Co.
 Carpenter's EuropeAmerican Book Co.
 Carpenter's North AmericaAmerican Book Co.
 Carpenter's South AmericaAmerican Book Co.
 Winslow's The Earth and Its PeopleD. C. Heath & Co.
 Winslow's The United StatesD. C. Heath & Co.
 Winslow's Our American NeighborsD. C. Heath & Co.
 Winslow's EuropeD. C. Heath & Co.
 Winslow's Distant CountriesD. C. Heath & Co.
 McDonald & Dalrymple's Little People Everywhere:
 Betty in CanadaLittle, Brown & Co.
 Manuel in MexicoLittle, Brown & Co.
 Ume Sam in JapanLittle, Brown & Co.
 Rafael in ItalyLittle, Brown & Co.
 Kathleen in IrelandLittle, Brown & Co.
 Fritz in GermanyLittle, Brown & Co.
 Gerda in SwedenLittle, Brown & Co.
 Boris in RussiaLittle, Brown & Co.
 Donald in ScotlandLittle, Brown & Co.
 Martha in HollandLittle, Brown & Co.
 Hassan in EgyptLittle, Brown & Co.
 Josefa in SpainLittle, Brown & Co.

Histories

Gordy's AmericanScribner's Sons
 Montgomery's Leading FactsGinn & Co.
 Scudder's AmericanAmerican Book Co.
 Dickson's AmericanThe MacMillan Co.
 Tappan's Our Country's StoryHoughton, Mifflin Co.
 Tappan's England's StoryHoughton, Mifflin Co.
 Davis's History of the U. S. for Youngest ReadersEd. Pub. Co.
 Wilson's ReadersThe MacMillan Co.

Historical Readers

Guerber's Story of the English	American Book Co.
Guerber's Stories of the Greeks	American Book Co.

Language and Grammar

Mother Tongue, Books I and II	Ginn & Co.
Metcalf & Rafter Series, Books I and II	American Book Co.
Aldine Language	Newson & Co.

Music Readers

Harmonic Series	American Book Co.
Johnson's Songs of the Nation (Sets of 50)	Silver, Burdett & Co.

Spellers

Chancellor's Graded Story	The MacMillan Co.
Reed's Word Lessons	C. E. Merrill Co.

Physiology

Gulick Series, Good Health	Ginn & Co.
Gulick Series, Emergencies	Ginn & Co.
Gulick Series, Town and City	Ginn & Co.
Gulick Series, Body at Work	Ginn & Co.
Gulick Series, Control of the Body and Mind	Ginn & Co.

Readers

The Aldine Series	Newson & Co.
Baker & Carpenter	The MacMillan Co.
Cyr	Ginn & Co.
Gordon	D. C. Heath & Co.
Jones	Ginn & Co.
Art Literature	Atkinson, Mentzer Co.
Howe	Scribner's Sons
Wheeler	W. H. Wheeler & Co.
Williams Choice Literature	American Book Co.
The Hiawatha Primer	Houghton, Mifflin Co.
The Wide Awake Series	Little, Brown & Co.
Child Life Series	The MacMillan Co.
Heath	D. C. Heath & Co.
The Riverside Readers	Houghton, Mifflin & Co.
Free & Treadwell's Reading Literature, I and II	Row, Peterson & Co.
The Haliburton Readers, I and II	D. C. Heath & Co.
Progressive Road to Reading, I and II	Silver Burdett & Co.
(1) Blaisdell's Boy Blue and His Friends	Little, Brown & Co.
(2) Blaisdell's Polly and Dolly	Little, Brown & Co.
(3) Blaisdell's Cherry Tree Children	Little, Brown & Co.
(4) Bingham's Merry Animal Tales	Little, Brown & Co.
(5) Bryce's Fables from Afar	Newson & Co.
(6) Bryce's That's Why Stories	Newson & Co.
(7) Bryce's Short Stories for Little Folks	Newson & Co.
(8) Smith's Four Footed Friends	

The eight books numbered above are to be furnished for first, second and third grades in sets of not more than twenty-five.

General Literature

Sewell's Black Beauty	Ed. Pub. Co.
Defoe's Robinson Crusoe	American Book Co.
Masterpieces of American Literature	Houghton, Mifflin & Co.
Hawthorne's Wonder Book	Houghton, Mifflin & Co.
Scudder's Fables and Folk Stories	Houghton, Mifflin & Co.
Hale's A Man Without a Country (Sets of 50)	
Brook's Story of the Old Bay State (Set of 4), Grade 9	American Book Co.
Coe's Founders of Our Country (Set of 4), Grade 5	
Lucia's Story of American Discoverers for Little Americans (Set of 4)	
Grade 4	American Book Co.
Stevenson's Children's Classics (Set of 10):	Houghton, Mifflin & Co.
Book I for Grade 3	Houghton, Mifflin & Co.
Book II for Grade 4	Houghton & Mifflin & Co.
Book III for Grades 5 and 6	Houghton, Mifflin & Co.

DESK BOOKS FOR TEACHERS

Hart's Source Readers in American History	The MacMillan Co.
Page's American Poets	Houghton, Mifflin & Co.
Hazard's Three Years With the Poets	Houghton, Mifflin & Co.
Johnston's Ireland's Story	Houghton, Mifflin & Co.
Ashley's Government and Citizen	Ginn & Co.

Writing

Gilman System	Dutton & Co.
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TEXT BOOKS ADDED TO THE LIST

1914

Standard Reference Work.
Funk and Wagnalls Dictionaries.

1915

O'Shea & Kellogg Health Series, published by MacMillan Co.
Business English by Davis & Lingham, published by Ginn & Co.
Office Training for Stenographers.—Gregg.
Standard Dictionary of Facts.

1916

Williams & Rogers, Beldings Correspondence—American Book Co.
Young & Field's Readers—Ginn Co.
Golden Rule Series—MacMillan Co.
Story Hour Readers—American Book Co.
See & Say Phonics—Iroquois Pub. Co.
Brigham & McFarlane. Essentials of Geography—American Book Co.

1917

Oral and Written English by Potter, Jeschke and Gillett, published by Ginn & Co.
To take the place of Mother Tongue.
Emerson and Bender. Grammar for optional use in ninth grades.
Spellers—Mastery of words, Sarah Louise Arnold, published by Iroquois Publishing Co.
These spellers to replace, as spellers are needed the Reed and the Chancellor spellers which are now in use.
Readers: Everyday Classics by Baker and Thorndike, published by MacMillan Co.
The Merrill Readers by Dyer and Brady, published by Chas. E. Merrill Co.
The Elson Readers, by Elson Keek, published by Scott, Foresman & Co.
The Lippincott Readers, by Homer P. Lewis, published by J. B. Lippincott Co.
The Twins Series, by Lucy Fitch Perkins, published by Houghton, Mifflin Co.
Bunny Rabbits Diary by Blaisdell, published by Little, Brown & Co.
Pretty Polly Flinders by Blaisdell, published by Little, Brown & Co.
Old Mother West Wind by Burgess, published by Little, Brown & Co.

For the Desk:—

Arlo by Cobb, published by the Riverside Press.
For the Children's Hour, by Bailey, published by Milton, Bradley Co.
Keep Well Stories by Jones, published by J. P. Lippincott Co.
Wonderland Stories by Lewis, published by J. P. Lippincott Co.
The Travels of Birds by Chapman, published by D. Appleton & Co.

1918

Hart's School History of the United States.
Powell's The Spirit of Democracy.
Watkin's The Forum of Democracy.
Brubacher & Snyder—High School English, Book I.

1919

Practical English, by Lewis and Harris.
 Prose Literature, by Ashman.
 The Deserted Village, Eclectic Edition.
 Quentin Durward, Pocket Classics Edition.
 Oregon Trail, by Parkman, MacMillan Co.
 Inland Voyage and Travels with a Donkey, Eclectic Edition.
 Essays and Essay Writing, The Atlantic Monthly.
 Henry Esmond, Pocket Classics Edition.
 Crawford, Pocket Classics Edition.
 Two Years Before the Mast, Pocket Classics Edition.
 Pride and Prejudice, Pocket Classics Edition.
 Mill on the Floss, Pocket Classics Edition.
 The Rivals and The School for Scandal, Pocket Classics Edition.
 The Virginians, Thackeray, MacMillan Co.
 First Principles of Chemistry, (Revised Edition), Allyn and Bacon.
 Laboratory Exercises to accompany First Principles of Chemistry, Allyn and Bacon.

1920

Brief Business Arithmetic, by Sutton and Lenner, Allyn and Bacon.
 Durell and Arnold's Algebra, Chas. E. Merrill Co.
 Fite's History, Henry Holt & Co.
 Ashley's New Civics, MacMillan Company.

1921

Grammaire Elementaire, by Armand, D. C. Heath & Co.
 Mes Premiers Pas en Francais, Chapuzet and Daniels, D. C. Heath & Co.
 Durell's and Arnold's Algebra, Charles E. Merrill & Co.
 Ward's Sentence and Theme, Scott Foresman & Co.
 Hitchcock's Junior English Book, Henry Holt & Co.

**SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR
ENDING JUNE 30, 1921, WITH NUMBER OF PUPILS BELONGING DECEMBER, 1921.**

SCHOOL	LOCATION	Whole No. Enrolled			No. of Pupils Belonging Dec. 1921			Whole No. Pupils on Registers Since Sept. 1, 1920			Average No. Belonging to School			Average Daily Attendance			No. ent'd not rec'd from any other public school	No. rec'd from other public schools of lower grade	No. sent to other public schools of same grade	No. sent to other public schools of higher grade	Per cent. of attendance	No. of class-rooms in regular use	No. of seats or sittings in these rooms	
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total											
High	Kirk and Anne St.	778	937	1715	903	1078	1981	778	937	1715	727	875	1602	701	853	1554	122	454	27	25	1297	50	1723	
Grammar																								
Bartlett	Wannalancit St.	338	334	672	424	387	811	358	353	711	311	304	615	289	280	569	37	17	149	50	5392	5	707	
Butler	Gorham St.	291	278	569	273	253	526	293	291	584	271	253	524	250	235	485	16	104	15	40	1692	5	684	
Colburn	Lawrence St.	154	170	324	165	165	330	162	177	339	142	161	303	137	151	288	21	74	15	25	3595	8	356	
Edson	Highland and South St.	192	196	388	221	195	416	221	221	442	169	173	342	182	162	314	12	94	25	18	2891	8	524	
Green	Merrimack St.	267	251	518	259	176	435	271	256	527	224	206	430	208	189	397	143	74	22	26	2292	3	568	
Greenhalge	Ennell St.	180	201	381	210	203	413	189	206	395	172	185	357	164	176	340	110	66	32	29	1985	2	481	
Lincoln	Chelmsford St.	283	268	551	214	210	424	296	280	576	264	254	518	249	235	484	21	105	20	69	4593	4	678	
Moody	Rogers and High St.	197	181	378	192	162	354	205	187	392	180	167	347	169	157	326	30	57	16	42	1193	9	500	
Morey	Pine and Wilder St.	404	400	804	490	504	994	468	409	877	375	373	748	353	350	703	32	121	21	75	4693	2	812	
Pawtucket	Mammoth Road	183	209	391	167	168	335	183	208	391	169	177	346	166	169	335	32	60	5	14	994	2	468	
Riverside	Woburn St.	77	90	167	74	82	156	81	94	175	69	77	146	66	71	137	137	14	21	10	14	993	8	183
Varnum	Myrtle and Beech St.	368	363	731	355	338	693	354	393	747	329	348	677	316	328	644	101	93	49	58	3695	1	824	
Washington	Avery and Lang St.	253	217	470	186	174	360	254	222	476	228	195	423	204	209	413	4	57	14	61	1797	6	500	
	Total	3187	3157	6344	3220	3017	6237	3335	3297	6632	2902	2877	5779	2717	2712	5429	571	943	393	546	34693	9	7285	

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS—(Continued)

Primary	17	18	35	14	20	34	17	22	39	15	17	32	14	14	28	7	5	9	7	587.5	1	46
Agawam St.	80	59	139	78	46	124	96	70	166	83	54	137	75	52	127	51	2	27	30	20,927	4	212
Ames St.	126	123	249	103	112	215	137	131	268	110	110	220	97	97	194	84	17	30	1	20,881	4	280
Bartlett	132	91	223	91	88	179	142	96	237	104	77	181	93	68	161	45	0	14	44	13,889	6	200
Cabot St.*	52	51	103	50	41	91	67	65	132	61	49	100	47	46	93	3	0	14	13	20,918	3	168
Central St.	50	48	90	50	28	78	65	56	121	44	42	86	41	38	79	45	6	22	22	20,918	2	102
Charles St.	68	90	158	47	69	116	68	90	158	50	70	120	45	67	112	52	0	16	26	30,933	3	172
Colburn	98	98	196	77	78	165	124	125	249	83	84	167	77	76	153	86	15	53	46	23,916	6	271
Cross St.	66	77	152	61	69	154	104	96	200	83	74	157	74	66	140	94	1	37	30	18,911	4	181
Dover St.	87	8	162	61	122	80	92	172	59	77	73	136	55	69	124	24	28	19	40	22,911	1	3
Summer and Favor St.	91	77	168	86	76	162	101	88	189	73	61	134	74	50	124	57	0	21	28	21,925	1	3
Eliot	64	58	112	66	55	121	56	65	121	50	52	102	46	47	93	18	1	8	27	5,911	3	142
Franklin	66	74	140	60	54	114	68	78	146	50	55	105	48	52	100	62	2	6	30	16,955	2	111
Grand St.	122	105	227	108	107	215	149	136	285	131	111	245	124	102	226	54	5	61	61	35,933	6	301
Greenhalge	7	13	22	9	13	22	9	13	22	7	10	17	7	9	16	8	0	1	1	1,941	1	25
Kirk St.	76	76	152	63	74	127	85	83	168	65	69	134	60	64	124	38	19	14	31	16,925	3	160
Lakeview Ave.	92	90	182	95	86	181	111	100	211	97	87	184	56	78	164	26	12	33	57	19,891	1	278
Chelmsford St.	62	60	122	44	58	102	64	66	130	54	53	107	51	47	98	47	0	7	28	4,915	5	166
London and West St.	60	47	107	47	43	90	63	54	117	50	39	89	46	36	82	4	0	10	26	26,921	2	103
Central and Lyon St.	105	121	226	86	109	195	105	121	226	89	109	198	80	180	45	10	6	72	14,909	5	240	
Mammoth Road	61	66	127	64	66	130	65	71	136	56	64	120	57	107	19	25	9	39	5,891	3	168	
Pine St.	103	80	183	84	70	154	108	83	191	84	69	153	78	63	141	37	20	32	33	4,692	1	199
Pond and High St.	62	53	105	46	34	80	67	50	117	49	39	88	45	36	81	23	5	18	28	14,921	2	105
Powell St.	57	43																				

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS—(Continued)

Mixed	Lexington Ave.	25	26	51	26	28	54	25	29	54	24	22	46	23	20	43	5	0	3	5	3	3	2	66
	Cornell St.	78	57	135	66	50	116	78	57	135	69	49	118	61	44	105	20	0	8	12	13	89	3	152
Kindergarten	Total	103	83	186	92	78	170	103	86	189	93	71	164	84	64	148	25	0	11	17	16	91	5	218
	In Agawam Primary	12	17	29	9	11	20	12	17	29	9	13	22	6	10	16	29	0	0	15	1	72	1	25
	In Cross St. Primary	28	26	54	16	20	36	28	19	39	16	17	33	54	0	0	2	0	17	2	84	6	45	
	In Central St. Primary	16	22	38	17	23	40	16	22	38	12	14	26	11	12	23	38	0	0	17	1	88	4	31
	In Coburn Primary	36	25	61	23	18	41	36	25	61	18	19	37	14	15	29	61	0	0	20	2	78	3	40
	In Dover St. Primary	19	19	38	11	23	31	21	24	45	16	14	30	14	11	25	38	0	7	24	4	53	1	33
	In Franklin Primary	22	22	44	13	15	28	22	23	45	14	11	25	11	9	20	43	0	2	26	0	38	1	50
	In Howard St. Primary	34	22	56	14	13	27	31	22	56	22	16	38	17	12	29	54	0	0	32	1	76	3	50
	In Lakeview Ave. Primary	31	30	61	26	21	47	35	31	66	23	17	40	19	12	31	61	0	5	34	0	77	5	48
	In Laura Lee Primary	24	2	44	20	16	36	25	21	46	17	13	32	14	13	27	44	0	2	31	2	84	3	42
	In Moody	22	23	45	14	13	27	22	23	45	17	11	28	13	10	23	44	0	1	21	7	82	1	35
	In Pawtucket	22	23	45	14	13	27	22	23	45	13	15	28	11	12	23	44	0	0	1	1	82	1	39
	In Pine St. Primary	31	36	67	19	24	43	31	37	68	25	26	61	19	21	40	66	0	2	38	6	78	4	64
	In Varnum School	31	46	77	34	29	63	31	46	77	22	31	53	18	25	43	74	0	3	45	5	81	1	64
	In Weed St. Primary	22	11	33	12	9	21	22	11	33	15	7	22	12	4	16	33	0	0	16	1	72	7	52
	Total	350	341	691	245	250	493	352	714	243	228	471	196	183	378	684	0	24	319	33	80	15	606	
Vocational	Broadway and Common St.	195	126	321	208	126	384	223	144	367	165	110	275	150	95	245	73	148	20	0	1	89	19	
	Summary	778	937	1715	968	1078	1981	778	937	1715	727	875	1602	701	853	1554	122	454	27	25	12	97	50	1733
	Grammar Schools	3187	3157	6344	3220	3017	6237	3335	3257	6632	2902	2877	5779	2717	2712	5429	571	943	393	546	346	33	9	7285
	Primary Schools	2201	2129	4330	1923	1945	3828	2471	2857	4828	1944	1862	3806	1780	1689	3169	1271	219	851	885	529	91	101	5034
	Mixed Schools	108	83	186	92	78	170	103	86	189	93	71	164	84	64	148	25	0	11	17	16	91	2	218
	Kindergarten Schools	350	341	691	245	250	495	362	352	714	243	228	471	195	183	378	684	0	24	319	33	80	15	606
	Total	6814	6773	13587	6591	6451	13045	7272	7173	14145	6074	6023	12097	5627	5596	11223	2746	1764	1026	1792	937	90	4	14866

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CITY OF LOWELL

MASSACHUSETTS

Eighty-Sixth Annual Report

OF THE

CITY AUDITOR



FOR THE FINANCIAL YEAR

1921

Municipal Council

1921

MAYOR

PERRY D. THOMPSON

Commissioner Public Safety

ALDERMAN

JAMES E. DONNELLY

Commissioner Finance

ALDERMAN

DENNIS A. MURPHY

Commissioner Streets and Highways

ALDERMAN

GEORGE E. MARCHAND

Commissioner Property and License

ALDERMAN

JOHN F. SALMON

Commissioner Fire and Water Department

CITY OF LOWELL

Lowell is situated at the confluence of the Merrimack and Concord Rivers. Was settled in 1653, called Chelmsford Grant. First Town Meeting in 1654. Was originally a part of Chelmsford.

Owens its own water supply.

Incorporated as a Town in 1826.

Incorporated as a City in 1836.

Part of Tewksbury annexed in 1834, 1847, 1898, 1906.

Part of Dracut annexed in 1851, 1874, 1879.

Part of Chelmsford annexed in 1826, 1874.

Population, 112,759.

Has 219.18 miles of streets, 144.78 accepted, 74.40 unaccepted.

Has 125.43 miles of sewers, costing \$6,893,411.55.

Has an area of 14.1 square miles.

Assessed valuation \$128,729,604.00, and 28,276 assessed polls.

Tax rate \$31.40 per \$1,000.00 per cent. of valuation 100.

Bonded indebtedness, December 31, 1921, \$6,002,135.00, sinking funds \$198,324.48.

City Hall and Memorial Building costing \$450,000.

School Department—66 day High School teachers, 338 day elementary school teachers, 39 evening High School teachers, 45 evening elementary school teachers, Americanization classes, 35 teachers, Continuation School, 13 teachers.

Fire Department—196 officers and men, 171 fire alarm boxes, 1481 hydrants, 22 fire apparatus (not including water tower).

Water Department—Date of construction, 1870 to 1873; high service, 1881; driven wells, 1893 to 1919.

Source of supply—Two hundred ten (210) driven wells in the valley of River Meadow Brook, and five hundred fifty-five (555) driven wells at Pawtucket Boulevard.

Mode of supply—Pumping to reservoir and pumping direct. Filtered through coke and sand.

Daily capacity 37,000,000 gallons; 163.03 miles mains; reservoir capacity 5 days' supply; consumes 6,537,036 gallons daily.

Park Department—152.082 acres of parks and playgrounds valued at \$735,419.00.

Has five National Banks, two Trust Companies.

Has eight Savings Banks.

Has three Co-operative Banks.

Has 16½ miles waterways.

Develops about 30,000 h. p. daily by means of 6½ miles of canals. which furnish power for manufacturing plants.

Has the largest Textile School.

Has more than 1000 manufacturing plants.

Sections of Ordinances of City of Lowell

The financial year shall begin on the first day of January and end on the thirty-first day of the following December, including both days, and all department books and accounts must be run accordingly.

All departments and offices of the city government shall keep and furnish such records in book form or otherwise, as shall be prescribed by the City Auditor.

All accounts rendered to or kept in the departments of the city shall be subject to the inspection of the City Auditor.

All or any city departmental officials, collecting money due the city for licenses, fees, fines, services rendered or for material sold, or for any other purpose, for which no bill was previously rendered, shall pay all such collections over to the City Treasurer on or before the last day of each month.

All bills or claims for work performed must be presented to the department ordering the same; those for supplies furnished and on account of contracts therefor should be presented to the Purchasing Agent.

All bills or claims should be received by the city on or before the first day of the month.

All department receipts for materials and supplies should be sent to the purchasing agent on or before the third day of the month, as it is impossible for him to approve bills for payment in due course after that date.

All bills after approval by each commissioner should be listed and sent to the Auditor's Department not later than the eighth day of each month.

All bills or other claims, before they are finally certified by the City Auditor or paid shall be approved by the Municipal Council.

All bills approved will be paid on the fifteenth day of each month.

Auditing Department

To the Municipal Council of the City of Lowell,

Gentlemen:—

Pursuant to the provisions of law made and provided, hereinafter is submitted a report of the City Auditor of the City of Lowell, concerning all business transactions of the city during the fiscal year of 1921.

Respectfully,

J. JOSEPH HENNESSY,
Auditor.

SUMMARY OF ASSESSMENTS, ETC., IN THE YEAR 1921

	Number
Polls at commitment	2774
Supplementary	722
Total number	28496 at \$5.00
	\$ 142,480.00

Property Valuations

	At Commitment	Supple. in Dec.	Totals	At Commitment	Supplementary	Totals
Personal	\$ 33,797,023.00	\$ 61,431.00	\$ 33,858,454.00	\$1,061,226.52	\$1,928.93	\$1,063,155.45
Real estate	94,813,000.00	58,150.00	94,871,150.00	2,977,128.20	1,825.91	2,978,954.11
Totals	\$128,610,023.00	\$119,581.00	\$128,729,604.00	\$4,038,354.72	\$3,754.84	\$4,042,109.56

Total Property Tax	\$4,042,109.56
1921 total tax on polls and property	\$4,184,589.56

Non-resident bank shares valuation not included in city valuation proper	\$478,891 tax.....	15,037.18
Total tax for which warrants were issued.....		\$4,199,626.74
Special: Total number of polls 28496 at \$3.00 each payable to State and included in above.....		85,488.00
Balance represents levy and supplementary taxes		\$4,114,138.74

City Appropriations	\$3,678,275.02	
Income Tax distribution deduct.....	107,211.97	
Net City appropriations to raise.....		\$3,571,063.05
State Tax	\$298,480.00	
State Highway Tax	2,654.00	
State Grade Crossings Tax	2,160.00	
State Special Tax for Res. Army & Navy Men	14,071.20	
State Bay State St. Ry. Tax.....	4,661.32	
Total for State		332,026.52
County Tax		159,133.66
Total up to Overlay		\$4,052,223.23
Overlay		41,679.49
Grand Total City Tax at commitment.....		\$4,093,902.72
Non resident bank shares val. \$478,891.00 Tax.....		15,037.18
Supplementary taxes in December.....		5,198.84
Total amount of City Taxes in 1921.....		\$4,114,138.74
Special polls in 1921 28496 at \$3.00 state's portion..		85,488.00
Total Tax for which warrants were issued....		\$4,199,626.74
Street Sprinkling Tax		26,368.10
Moth Tax		3,542.35
Total amount from all sources from which war- rants were issued		\$4,229,537.19

ABATEMENTS OF POLLS, PROPERTY STREET SPRINKLING AND MOTH ASSESSMENTS MADE IN THE YEAR 1921

Reassessments

Year	Total Abatements	Before Payment	After Payment	Before Payment	After Payment	Poll Tax	Personal	Real Estate	Totals
1915	\$ 239.36	\$ 239.26						\$ 239.36	\$ 239.36
1918	14,626.83	14,626.83				\$10,288.00	\$4,160.24	178.59	14,626.83
1919	607.20	605.20		\$ 1.30		2.00	46.80	555.10	603.90
1920	6,290.87	6,110.31	180.56	244.80	\$23.12	922.00	2,350.76	2,569.63	5,842.39
1921	31,861.72	30,971.29	890.43	3,896.74	14.13	4,041.00	13,867.89	9,151.53	27,060.42

Street Sprinkling Abatements

Year	Total	Before Payment	After Payment	Before Payment	After Payment	Poll Tax	Personal	Real Estate	Totals
1915	\$ 5.18	\$ 5.18							\$ 5.18
1919	20.39	17.89	\$2.50						17.89
1920	10.57	10.57		\$ 6.44					4.13
1921	162.17	91.89	70.28	32.83					59.06

Moth Tax Abatements

Year	Total	Before Payment	After Payment	Before Payment	After Payment	Poll Tax	Personal	Real Estate	Totals
1918	\$ 1.60								\$ 1.60
1919	.20								.20
1920	.40								.40
1921	.70			\$.70					

BALANCE SHEET

December 31, 1921

Dr.	REVENUE	Cr.
\$ 159,511.59	....Cash	
533.52	....Taxes	1915.....
8,687.64	....“	1916.....
15,925.96	....“	1919.....
316,765.76	....“	1920.....
1,005,523.67	....“	1921.....
	....Moth	1918.....
	....“	1919.....
431.15	....“	1920.....
1,102.60	....“	1921.....
6.58	....Sprinkling	1915.....
	....“	1918.....
3,220.90	....“	1920.....
8,395.60	....“	1921.....
	....Overlay	1916.....
	....“	General.....
	....“	1918.....
	....“	1919.....
	....“	1920.....
	....“	1921.....
3,198.66	....Tax Titles	1,732.31
1,874.08	....Sidewalk Assessment	47.01
4,994.62	....Sewer Assessment	9,052.09
9,888.13	....Department Accts. Rec.	72,559.45
6,223.50	....Cemetery Accts. Rec.	89,071.68
9,341.12	....Water Accts. Rec.	14,604.94
	....Temporary Loans	
42,095.20	....Revenue Appropriations	1,200,000.00
	....Cemetery Revenue	6,223.50
	....Water Revenue	9,341.12
	....Prior Revenue	172,637.07
	....Premiums	37,044.90
	....Sidewalk Revenue	1,874.08
	....Sewer Revenue	4,994.62
10,249.36	....Excise Tax	
11,214.32	....Income Tax 1921	
\$1,619,183.96		\$1,619,183.96

NON-REVENUE

\$ 780,462.72	....Cash	
	....Appropriations	\$ 840,462.72
\$ 60,000.00	....Loans Authorized	
\$ 840,462.72		\$ 840,462.72

CITY OF LOWELL, DECEMBER 31, 1921

THE MUNICIPAL DEBT

Gross Debt

Total Ordinary City Debt	\$5,660,385.00
Total Water Works Debt	341,750.00
Total Tax Revenue Loans	1,200,000.00
Gross Debt December 31, 1921.....	\$7,202,135.00

Net City Debt

Total Ordinary Debt, January 1, 1921.....	\$4,176,935.00
Sinking Fund	198,324.48
Total	\$3,978,610.52
Payments on Ordinary Debt 1921	410,550.00
Total	\$3,568,060.52
Sinking Fund Payment, High School.....	150,000.00
Total	\$3,418,060.52
Loans 1921	2,044,000.00
Net Debt December 31, 1921.....	\$5,462,060.52

Net Water Debt

Total Ordinary Water Debt, January 1, 1921.....	\$ 370,750.00
Payments 1921	59,000.00
Total	\$ 311,750.00
Loans 1920	30,000.00
Total	\$ 341,750.00

Total Net City and Water Debt December 31, 1921

City	\$5,462,060.52
Water	341,750.00
Total	\$5,803,810.52

INDEBTEDNESS

December 31, 1921

Sinking Funds Cash and Securities		Funded Debt
New School House Fund. \$	198,324.48	New Schoolhouse Loan pay-
Net Bonded Dept.....	5,803,810.52	able 1926 \$
		4% 1,063,885.00
		4¼% 72,200.00
		4½% 1,748,850.00
		4¾% 420,000.00
		5% 1,915,000.00
		5¼% 54,000.00
		5½% 480,000.00
		6% 22,000.00
		Nesmith Fund 1870..... 25,000.00
		Nesmith Fund 1870..... 1,000.00
		Carney Medal Fund..... 200.00
	\$6,002,135.00	\$6,002,135.00

HIGH SCHOOL SINKING FUND STATEMENT

Loan Paid April 1, 1921

High School Sinking Fund Cash and Securities as represented by the report of the Sinking Fund Commission as of Jan. 1, 1921, and carried upon the books of the City Auditor up to and in- cluding March 31, 1921 \$	173,077.46	Cash paid into the City Treasury of the City of Lowell from April 1 to May 1, 1921, by the Sink- ing Fund Commission on account of Sinking Fund securities sold for the payment and liquidation of the High School loan, payable and paid on Ap- ril 1, 1921 \$	116,403.34
		October 14, 1921, cash paid into the City Treasury of the City of Lowell by the Sinking Fund Commis- sion on account of Sink- ing Fund securities sold for the payment and li- quidation of the High School loan, payable and paid on April 1, 1921..	14,000.00
		October 17, 1921, cash paid into the City Treasury of the City of Lowell by the Sinking Fund Commis- sion on account of Sink- ing Fund securities sold for the payment and li- quidation of the High School loan, payable and paid on April 1, 1921....	19,569.66
		October 17, 1921, deprecia- tion of par value of bonds, as per statement of Sinking Fund Commis- sion, as of January 1, 1921	23,077.46
	\$ 173,077.46		\$ 173,077.46

TRUST FUNDS

Cash and Securities.....	\$ 314,852.84	Carney Medal Fund.....	\$ 200.00
*Cash Used by City in		Hapgood Wright Fund..	13,885.21
1870, Nesmith Funds...	26,000.00	John Davis Library Fund	100,727.43
*Carney Medal Fund.....	200.00	Jonathan Tyler Fund....	10,000.00
		Thos. Nesmith Fund... ..	25,000.00
		Thos. Nesmith Fund.....	1,000.00
		Cemetery Perpetual Care.	169,927.70
		Unpaid Debt and interest	19,312.50
		Joseph Henry Stackpole	
*No Cash in these Funds		Fund	1,000.00
	\$ 341,052.84		\$ 341,052.84

Property

Dr.		Cr.
\$2,029,376.67	Water Works	
2,094,890.00	Schools	
2,751,247.42	General Departments	
	City of Lowell (Balancing account)	\$6,875,514.09
\$6,875,514.09		\$6,875,514.09

DEBT LIMIT, 1921

Total Ordinary Debt, Jan. 1, 1921.....	\$4,176,935.00
Total Water Works Debt, Jan. 1, 1921.....	370,750.00
Total Tax Revenue Loans, Jan. 1, 1921.....	1,200,000.00
	<hr/>
Total Gross Debt, Jan. 1, 1921	\$5,747,685.00

Deduct by Legislation :

Water	\$ 370,750.00
Special Legislation	1,820,750.00
Temporary Loan	1,200,000.00
	<hr/>
	\$3,391,500.00

City Debt as relates to limit of indebtedness.....	\$2,356,185.00
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Limit of Municipal Debt for 1921.....	\$2,741,720.82
City Debt as relates to Limit	2,356,185.00
Distance from Limit Jan. 1, 1921.....	385,535.82
Distance from Limit Dec. 31, 1921	123,835.82

1921 Loans

Sewer Construction—25 years	\$ 50,000.00
Bridge Construction—20 years	40,000.00
Bridge Construction—20 years	60,000.00
Construction of School Houses—20 years.....	20,000.00
New High School Acts 1919, \$230,000 10 yrs., \$220,000, 20 yrs.	450,000.00
Auditorium—20 years	200,000.00
Permanent Paving—10 years	80,000.00
Macadam Paving—5 years	60,000.00
New Sidewalks—2 years	20,000.00
Water Works—5 years	20,000.00
New Fire House—10 years	20,000.00
Sewer Construction—25 years	25,000.00
School House Construction—20 years.....	20,000.00
Sewer Construction—25 years	25,000.00
School House Construction and Additions—15 years.....	34,000.00
Auditorium—20 years	260,000.00
Sewer Construction—25 years	25,000.00
Permanent Paving—5 years	25,000.00
Macadam Paving—5 years	30,000.00
Water Dept. Extension and Equipment—5 years.....	10,000.00

Forward	<hr/> \$1,474,000.00
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Forward	\$1,474,000.00
Acquiring Land for Public Parks—16 years.....	32,000.00
Acquiring Land and Constructing School House—4 years.....	8,000.00
Constructing Fire Engine House—5 years.....	10,000.00
Sewer Construction—10 years	10,000.00
New High School, Acts 1920—20 years.....	540,000.00
Total	\$2,074,000.00

Recapitulation of 1921 Loans

Borrowed Inside Limit of Indebtedness	\$ 594,000.00
Borrowed Outside Limit of Indebtedness.....	1,480,000.00
Total	\$2,074,000.00

New High School:

Total Authorized Loans	\$2,050,000.00
Negotiated prior to 1921	\$1,000,000.00
Negotiated during 1921	990,000.00
	<hr/> 1,990,000.00
Balance not yet negotiated	\$ 60,000.00

Lowell Memorial Auditorium:

Authorized in 1919	\$1,000,000.00
Loans in 1919	140,000.00
Loans in 1920	400,000.00
Loans in 1921	460,000.00
Total	\$1,000,000.00

CLASSIFICATION OF
RECEIPTS AND PAYMENTS
BY SCHEDULES
Year 1921

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
General Revenue			
1. Taxes:			
<i>Current Year</i>			
1. Property	\$3,072,319.65		
2. Poll	94,723.00		
<i>Previous Years</i>			
3. Property	660,367.60		
4. Poll	4,180.00		
<i>From the State</i>			
5. Corporation	457,900.66		
6. Street Railway	414.27		
7. Bank	3,281.61		
<i>Income Tax</i>	209,091.05		
Civilian War Tax	363.00		
Tax Title Redemption	136.48		
Eastern Mass. Ry.	9,955.68		
Total from Taxes	\$4,512,733.00		\$4,512,733.00
2. Licenses and Permits:			
<i>Licenses</i>			
8. Liquor	22.00		
9. All Other	13,472.75		
<i>Permits</i>			
10. Marriage	1,124.00		
11. All Other			
Total	\$ 14,618.75		\$ 14,618.75
Total forward			\$4,527,351.75

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,527,351.75
3. Fines and Forfeits			
12. Court	17,495.53		
13. Department Penalties			
14. Contract Violations	2,000.00		
Total from Fines & Forfeits	\$ 19,495.53		\$ 19,495.53
4. Grants and Gifts:			
<i>Grants from Other Civil Divisions</i>			
15. From State, for Education .			
a. Support of Public Schools			
b. Aid to High Schools			
c. Aid to Industrial Schools			
d. High School Tuition			
e. Union Superintendency ..			
16. From State, for Armories ..			
17. From State, for Highway			
Purposes			
18. From State, for Other Pur-			
poses			
a. Inspector of Animals ...			
b. Protection against Forest			
Fires			
c.			
d.			
19. From County (Dog Li-			
censes), for Schools or Li-			
braries	\$ 3,904.85		
Total forward			\$4,546,847.28

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,546,847.28
<i>Gifts from Individuals</i>			
20. For Expenses			
21. For Outlays			
Total from Grants and Gifts	\$ 3,904.85		\$ 3,904.85
5. All Other General Revenue:			
22.			
23.			
Total from All Other General Revenue			
Commercial Revenue			
6. Special Assessments*:			
24. Street Sprinkling	\$ 24,848.66		
25. Moth Extermination	3,140.85		
26. Sewers	10,653.73		
27. Sidewalks and Curbing	3,085.32		
28. Other Purposes			
Total from Special Assessments	\$ 41,728.56		\$ 41,728.56
7. Privileges:			
29. Public Service			
30. Minor			
Excise Tax	\$ 1,256.87		
Total from Privileges	\$ 1,256.87		\$ 1,256.87
Total forward			\$4,593,737.56

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,593,737.56
8. Departmental:			
8a. General Government			
<i>Legislative</i>			
31. Aldermen and Council; Moderator			
<i>Executive</i>			
32. Mayor; Commission; Select- men			
<i>Financial</i>			
33. Auditor, Accountant, and Auditing			
34. Treasurer	\$ 1,023.41		
35. Collector			
36. Assessors			
37. License Commissioners	22.00		
38. Other Finance Offices and Accounts			
<i>Other General Departments</i>			
39. Law			
40. City or Town Clerk	2,524.76		
General Government forward	\$ 3,570.17		
Total forward			

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. Departmental:			
1a. General Government			
<i>Legislative</i>			
1. Commissioners			
a. Salaries and Wages	\$ 10,000.00		
b. Other Expenses			
<i>Executive</i>			
2. Mayor; Commission; Selectmen			
a. Salaries and Wages	5,086.66		
b. Other Expenses	766.80		
<i>Financial</i>			
3. Auditor, Accountant, and Auditing			
a. Salaries and Wages	7,485.64		
b. Other Expenses	1,355.51		
4. Treasurer			
a. Salaries and Wages	16,574.98		
b. Other Expenses	4,750.51		
5. Collector			
a. Salaries and Wages			
b. Other Expenses			
6. Assessors			
a. Salaries and Wages	21,113.65		
b. Other Expenses	3,902.51		
7. License Commissioners			
a. Salaries and Wages	5,272.13		
b. Other Expenses	264.83		
8. Other Finance Offices and Accounts			
a. Sinking Fund Commissioners			
b. Miscellaneous	2,258.49		
<i>Other General Departments</i>			
9. Law			
a. Salaries and Wages	4,449.75		
b. Other Expenses	1,066.87		
10. City or Town Clerk			
a. Salaries and Wages	9,802.38		
b. Other Expenses	1,029.21		
General Government forward ..	\$ 95,209.92		
Total forward			\$4,593,737.56

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,593,737.56
General Government forward ..	\$ 3,570.17		
41. City Messenger			
42. Public Works			
43. Engineering			
44. Superintendent of Buildings			
45. Election and Registration ..	53.00		
46. Other General Departments			
<i>Municipal Buildings</i>			
47. City or Town Hall			
Total from General Government	\$ 3,623.17		\$ 3,623.17
8b. Protection of Persons and Property:			
<i>Police Department</i>			
48. Services of Officers	\$ 218.50		
49. Sale of Materials			
50. Miscellaneous			
Protection of Persons and Prop- erty forward	\$ 218.50		
Total forward			\$4,597,360.73

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			
General Government forward ..	\$ 95,209.92		
11. City Messenger			
a. Salaries and Wages	1,905.35		
b. Other Expenses	37.95		
12. Public Works			
a. Salaries and Wages			
b. Other Expenses			
13. Engineering			
a. Salaries and Wages	7,954.69		
b. Other Expenses	2,671.85		
14. Superintendent of Buildings			
a. Salaries and Wages	2,404.38		
b. Other Expenses			
15. Election and Registration ..			
a. Salaries and Wages	23,556.18		
b. Other Expenses	16,891.63		
16. Other General Departments			
Purchasing Agent			
Salaries and Wages	6,923.09		
Other Expenses	1,674.58		
Registrar of Labor			
Salaries and Wages	698.37		
Other Expenses	64.17		
<i>Municipal Buildings</i>			
17. City or Town Hall			
a. Salaries and Wages	17,806.02		
*b. Other Expenses	13,732.99		
Total for General Government	\$ 191,531.17		\$ 191,531.17
1b. Protection of Persons and Property:			
<i>Police Department</i>			
18. Salaries and Wages	\$ 299,206.41		
19. Horses and Care of Same ..	241.43		
*20. Equipment and Repairs			
21. Fuel and Light	3,003.97		
22. Maintenance of Buildings and Grounds			
*23. New Buildings			
24. Other Expenses	11,669.15		
Protection of Persons and Prop- erty forward	\$ 314,120.96		
Total forward			\$4,593,737.56

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,597,360.73
Protection of Persons and Prop- erty forward	\$ 218.50		
<i>Fire Department</i>			
51. Sale of Materials	241.40		
52. Miscellaneous	447.85		
<i>Militia</i>			
53. Armories			
54. Rifle Ranges			
<i>Inspection</i>			
55. Inspection of Buildings	19,029.55		
56. Inspection of Wires	450.26		
57. Sealing of Weights and Measures	1,286.99		
<i>Forestry</i>			
58. Insect Pest Extermination ..	420.99		
59. Planting and Trimming Trees			
60. Forest Fires			
<i>Other Protection of Persons and Property</i>			
61. Bounties			
62.			
63.			
Total from Protection of Persons and Property	\$ 22,095.54		\$ 22,095.54
Total forward			\$4,619,456.27

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$ 191,531.17
Protection of Persons and Prop- erty forward	\$ 314,120.96		
<i>Fire Department</i>			
25. Salaries and Wages	328,341.25		
26. Horses and Care of Same ..	7,798.15		
*27. Equipment and Repairs		9,500.00	
28. Hydrant Service	874.92		
29. Fuel and Light	11,786.08		
30. Maintenance of Buildings and Grounds			
*31. New Buildings			
32. Other Expenses	21,067.58		
Purchasing Land in Highlands			
Constructing Fire Engine House	13,376.81		
Constructing Fire Engine House			
Including cost of original equipment		26,193.91	
Constructing Fire Engine House		30,903.67	
<i>Militia</i>			
33. Armories			
34. Rifle Ranges	1,740.99		
<i>Inspection</i>			
Building Imp.	10,000.00		
35. Inspection of Buildings	124,655.72		
	140.41		
36. Inspection of Wires	4,701.52		
37. Sealing of Weights and Measures	7,727.13		
<i>Forestry</i>			
38. Insect Pest Extermination ..	8,812.19		
39. Planting and Trimming Trees	7,279.93		
40. Forest Fires			
<i>Other Protection of Persons and Property</i>			
41. Bounties			
42. Fish Wardens	150.00		
43. Pound Keeper	5.00		
44. Waterways	232.13		
Total for Protection of Persons and Property	\$ 862,810.77	\$ 66,597.58	\$ 929,408.35
Total forward			\$1,120,939.52

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,619,456.27
8c. Health and Sanitation:			
<i>Health</i>			
64. Quarantine and Contagious Disease Hospitals	\$ 1,356.61		
65. Tuberculosis	2,820.77		
66. Miscellaneous	2,690.24		
67. Inspection			
<i>Sanitation</i>			
68. Sewers and Sewage Disposal	25.00		
69. Sewer Construction			
70. Refuse and Garbage Disposal	4,448.90		
71. Street Cleaning			
Sewer Connections	249.43		
<i>Other Health and Sanitation</i>			
72. Comfort Station	796.18		
73. Isolation Hospital	29.77		
Total from Health and Sanitation	\$ 12,416.90		\$ 12,416.90
Total forward			\$4,631,873.17

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$1,120,939.52
1c. Health and Sanitation:			
<i>Health</i>			
45. General Administration	\$ 6,876.90		
*46. Quarantine and Contagious Disease Hospitals	2,196.78		
*47. Tuberculosis	5,492.75		
48. Vital Statistics	1,133.30		
49. Other Expenses	23,628.48		
50. Inspection			
a. Inspection of School Children	800.00		
b. Inspection of Animals ..	600.00		
c. Inspection of Meat and Provisions	1,000.56		
d. Inspection of Milk and Vinegar	3,816.61		
e. Inspection of Smoke	360.37		
<i>Sanitation</i>			
51. Sewer Maintenance and Operation	27,384.24		
52. Metropolitan Sewer Main- tenance			
*53. Sewer Construction		132,455.17	
*54. Refuse and Garbage Disposal	133,321.47		
*55. Street Cleaning			
<i>Other Health and Sanitation</i>			
*56. Sanitaries and Public Con- venience Stations	10,908.41		
57. Care of Brooks and Streams			
58. Draining of Ponds			
59a. Isolation Hospital	84,242.25		
b. Isolation Hospital E. & F.		2,289.71	
c. Public Bath and Comfort Station		45.20	
Total for Health and Sanita- tion	\$ 301,762.12	\$ 134,790.08	\$ 436,552.20
Total forward			\$1,557,491.72

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,631,873.17
8d. Highways:			
74. General	\$ 70.45		
75. Construction			
76. Sidewalks and Curbing			
77. Snow and Ice Removal			
78. Sprinkling			
a. Water	27.48		
b. Other			
79. Lighting			
80. Miscellaneous			
Total from Highways	\$ 97.93		\$ 97.93
8e. Charities:			
81. Almshouse or Town Farm .			
a. Sale of Produce and Stock			
b. Board	\$ 3,177.02		
c. Miscellaneous	187.06		
82. Reimbursements for Relief Given			
a. From Individuals	1,041.36		
b. From Other Cities and Towns	7,162.95		
c. From the State	3,226.19		
83. Reimbursements for Mothers' Aid			
a. From Individuals			
b. From Other Cities and Towns			
c. From the State			
84. Municipal General Hospitals			
85. Miscellaneous			
Total from Charities	\$ 14,794.58		\$ 14,794.58
Total forward			\$4,646,765.68

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$1,557,491.72
1d. Highways:			
60. General Administration			
61. General Highway Expenditures	\$ 306,075.91		
*62. Construction		\$ 306,059.31	
*63. Sidewalks and Curbing		18,387.47	
64. Snow and Ice Removal	38,270.86		
*65. Sprinkling			
a. Water	7,154.89		
b. Other	32,244.23		
66. Lighting	139,110.20		
67. Other Expenses	515.20		
a. Town Pump			
b. Signs, Guide Boards, and Street Numbering			
c. Court Awards—Dummer Street		12,771.20	
Total for Highways	\$ 523,371.29	\$ 337,217.98	\$ 860,589.27
1e. Charities:			
68. General Administration ...	\$ 6,889.63		
*69. Almshouse or Town Farm ..	\$ 167,239.69		
70. Outside Relief by City or Town	55,331.45		
71. Relief given by Other Cities and Towns	4,143.34		
72. Mothers' Aid			
a. Relief given by City or Town	77,687.53		
b. Relief given by Other Cities and Towns	3,752.98		
*73. Municipal General Hospitals			
74. Other Expenses	75.92		
Total for Charities	\$ 315,120.54		\$ 315,120.54
Total forward			\$2,733,201.53

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,646,765.68
8f. Soldiers' Benefits:			
86. State Aid	\$ 8,258.50		
87. Military Aid	1,670.00		
88. Soldiers' Burials			
89. Soldiers' Relief	440.00		
Total from Soldiers' Benefits ..	\$ 10,368.50		\$ 10,368.50
8g. Schools:			
90. Tuition and Transportation of State Wards			
91. Other Tuition	\$ 15,409.28		
92. Sale of Text Books and Sup- plies			
93. Miscellaneous	45.50		
Sight Saving	500.00		
American Classes	5,638.36		
Smith-Hughes	3,737.47		
Vocational	32,604.46		
S. W. Morey School		\$ 1,400.00	
School House Rentals	70.00		
School Houses	96.73		
Total from Schools	\$ 58,101.80	\$ 1,400.00	\$ 59,501.80
8h. Libraries:			
94. Fines, Rentals, and Sales ..	\$ 1,469.87		
95. Miscellaneous	15.59		
Total from Libraries	\$ 1,485.46		\$ 1,485.46
Total forward			\$4,718,121.44

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$2,733,201.53
1f. Soldiers' Benefit			
75. General Administration	\$ 3,151.71		
76. State Aid	7,967.00		
77. Military Aid	2,337.00		
78. Soldiers' Burials	386.71		
79. Soldiers' Relief	71,347.54		
German War	7,978.00		
Total for Soldiers' Benefits ..	\$ 93,167.96		\$ 93,167.96
1g. Schools			
80. General Expenses			
a. Administrative Salaries ..	\$ 5,000.04		
b. Other General Salaries ..	58,243.40		
c. Other General Expenses ..	3,072.97		
81. Teachers' Salaries	778,430.61		
82. Text Books and Supplies ...	54,119.11		
83. Tuition			
84. Transportation	2,743.40		
85. Support of Truants	2,178.86		
86. Janitors' Services	103,959.06		
87. Fuel and Light	54,623.82		
88. Maintenance of Buildings and Grounds			
*89. New Buildings		\$ 813,798.24	
*90. Furniture and Furnishings ..	8,030.75		
91. Rent	72,415.80		
92. Other Expenses			
Smith-Hughes Fund	3,805.47		
Textile School	10,000.00		
Total for Schools	\$1,156,623.29	\$ 813,798.24	\$1,970,421.53
1h. Libraries			
93. Salaries and Wages	\$ 19,959.91		
94. Books, Periodicals, etc.	5,681.44		
95. Binding	2,059.03		
96. Fuel and Light	819.00		
*97. Buildings			
98. Other Expenses	2,656.09		
Total for Libraries	\$ 31,175.47		\$ 31,175.47
Total forward			\$4,827,966.49

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,718,121.44
8i. Recreation			
96. Parks and Gardens	\$ 4,226.44		
97. Playgrounds and Gymnasias ..			
98. Bathhouses and Beaches			
99. Celebrations and Entertain- ments			
Memorial Day, S. W. V. ...	2.40		
Total from Recreation	\$ 4,228.84		\$ 4,228.84
Total forward			\$4,722,350.28

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,827,966.49
1i. Recreation:			
99. General Administration			
a. Salaries and Wages	\$ 4,039.88		
b. Other Expenses	358.35		
100. Parks and Gardens			
a. Salaries and Wages	15,102.94		
*b. Improvements and Addi- tions			
c. Metropolitan Park Main- tenance			
d. Other Expenses	28,662.67		
101. Playgrounds and Gymnasias .			
a. Salaries and Wages	3,618.90		
*b. Improvements and Addi- tions			
c. Other Expenses	903.06		
102. Bathhouses and Beaches ...			
a. Salaries and Wages ...	2,444.80		
*b. Improvements and Addi- tions			
c. Other Expenses	1,682.92		
103. Celebrations and Entertain- ments			
a. Fourth of July	1,038.34		
b. Labor Day			
c. Band Concerts	1,152.00		
d. All Other			
e. Armistice Day	241.50		
f. Vet. Firemen	100.00		
Total for Recreation	\$ 59,345.36		\$ 59,345.36
Total forward			\$4,887,311.85

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,887,311.85
1j. Pensions:			
104. Retirement made from:—			
a. Police Department	\$ 9,529.66		
b. Fire Department	9,090.80		
c. Bldgs. Department	281.71		
d. Streets Department	3,071.48		
e. Schools Department	774.29		
f. Water Works Department	365.00		
g. Department			
h. Department			
i. Department			
j. Department			
k. Department			
l. Department			
Total for Pensions	\$ 23,112.94		\$ 23,112.94
1k. Unclassified:			
105. Damages to Persons and Personal Property	\$ 1,814.42		
106. Memorial Day	2,626.85		
107. City and Town Clocks	75.00		
108. Searching Parties			
109. Ice for Drinking Fountains	442.80		
110. Payments not Recorded under Previous Classifications	1,452.84		
a. Printing City or Town Reports	1,647.40		
b. Workmen's Compensation	7,574.98		
c. General Expenses	9,055.12		
d. Charter Commission ...	728.94		
e. Memorial Auditorium ...		\$ 436,593.81	
Total for Unclassified	\$ 25,418.35	\$ 436,593.81	\$ 462,012.16
Total forward			\$5,372,436.95

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,724,959.97
9. Public Service Enterprises:			
102. Electric			
a. Income from Sale of Light and Power			
b. Miscellaneous			
103. Gas			
a. Income from Sale of Gas			
b. Sale of By-products (coke, tar, etc.)			
c. Miscellaneous			
204. Water			
a. Income from Sale of Water	\$ 372,117.20		
b. Miscellaneous	\$ 13,015.18	\$ 7,260.50	
105. All Other			
a. Markets			
b. Public Scales	72.65		
c. Docks and Wharves			
d. Ferries			
e. Herring and Alewife Fisheries			
f. Miscellaneous			
Total from Public Services Enterprises	\$ 385,205.03	\$ 7,260.50	\$ 392,465.53
10. Cemeteries:			
106. Sale of Lots and Graves	\$ 5,808.00		
107. Care of Lots and Graves ...	8,456.71		
108. Care of Endowed Lots (Interest on Funds)			
109. Miscellaneous	5,319.70		
Total from Cemeteries	\$ 19,584.41		\$ 19,584.41
11. Administration of Trust Funds:			
110.			
111.			
112.			
Total from Administration of Trust Funds			
Total forward			\$5,137,009.91

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$5,372,436.95
2. Public Service Enterprises:			
111. Electric			
a. Maintenance and Operation			
*b. Construction			
112. Gas			
a. Maintenance and Operation			
*b. Construction			
113. Water			
a. Maintenance and Operation	\$ 293,424.61		
b. Metropolitan Water Maintenance			
*c. Construction		\$ 46,782.31	
114. All Other			
a. Markets			
b. Public Scales	1,223.19		
c. Docks and Wharves ...			
d. Ferries			
e. Herring and Alewife Fisheries			
f. Miscellaneous			
Total for Public Service Enterprises	\$ 294,647.80	\$ 46,782.31	\$ 341,430.11
3. Cemeteries:			
115. Maintenance	\$ 24,443.06		
*116. Improvements and Additions			
Total for Cemeteries	\$ 24,443.06		\$ 24,443.06
4. Administration of Trust Funds:			
117.			
118.			
119.			
Total for Administration of Trust Funds			
Total forward			\$5,738,310.12

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$5,137,009.91
12. Interest:			
113. On Deposits	\$ 21,107.89		
114. On Deferred Taxes	\$ 36,557.09		
115. On Deferred Special Assess- ments			
116. On Sinking Funds			
117. On Investment Funds			
118. On Public Trust Funds*	465.29		
a. Charity			
b. School			
c. Library			
d. Cemetery (for General Care)			
e. All Other			
119. Miscellaneous			
Excise Tax	163.77		
Auditorium	3.87		
Corporation Tax	154.88		
Total from Interest	\$ 58,452.79		\$ 58,452.79
13. Municipal Indebted- ness:			
120. Loans in Anticipation of Revenue		\$3,300,000.00	
121. Other Temporary Loans ...			
122. Loans for General Purposes		\$2,044,000.00	
123.			
124. Loans for Public Service Enterprises		\$ 30,000.00	
125. Loans for Cemeteries			
126. Bonds Refunded, Current Year			
127. Premiums		\$ 19,658.81	
128. Unpaid Warrants or Orders of Current Year			
Total from Municipal Indebted- ness		\$5,393,658.81	\$5,393,658.81
Total forward			\$10,589,121.51

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$5,738,310.12
5. Interest:			
120. On Loans in Anticipation of Revenue			
121. On Other Temporary Loans	\$ 135,293.02		
122. On Loans for General Purposes	206,247.00		
123. On Trust Funds Used			
124. On Loans for Public Service Enterprises	14,860.00		
125. On Loans for Cemeteries ..			
126. Metropolitan Interest Requirements			
a. Sewer			
b. Park			
c. Water			
127. State Assessment for Interest on Account of Abolition of Grade Crossings			
128. All Other			
Total for Interest	\$ 356,400.02		\$ 356,400.02
6. Municipal Indebtedness:			
129. Loans in Anticipation of Revenue		\$ 560,550.00	
130. Other Temporary Loans ..		3,300,000.00	
131. Bonds and Notes from Sinking Funds			
a. General			
b. Public Service Enterprises		59,000.00	
c. Cemeteries			
132. Bonds and Notes from Revenue			
a. General			
b. Public Service Enterprises			
c. Cemeteries			
133. Metropolitan Sinking Fund and Serial Loan Requirements			
a. Sewer			
b. Park			
c. Water			
134. State Assessment for Abolition of Grade Crossing Loan Fund			
135. Bonds Refunded, Current Year			
136. Warrants or Orders of Previous Years			
Total for Municipal Indebtedness		\$3,919,550.00	\$3,919,550.00
Total forward			\$10,014,260.14

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$10,589,121.51
14. Sinking Funds:			
<i>From Commissioners to meet Loans for—</i>			
129. General Purposes		\$ 150,000.00	
130. Public Service Enterprises ..			
131. Cemeteries			
Total from Sinking Funds .		\$ 150,000.00	\$ 150,000.00
15. Agency, Trust, and Investment Transactions:			
<i>Agency</i>			
132. Taxes			
a. State			
b. Non-resident Bank			
c. County			
133. Liquor Licenses Collected for the State			
134. Reimbursements for Abolition of Grade Crossings			
135. All Other			
<i>Trust</i>			
136. Perpetual Care Funds		11,150.00	
137. Other Permanent Public Trust Funds		4,766.19	
138. Income for Investment			
139. Private Trust Funds and Ac- counts		45.50	
<i>Investment</i>			
140. Sinking Fund Securities			
141. Investment Fund Securities ..			
Total from Agency, Trust, and Investment Transactions ...		\$ 15,961.69	\$ 15,961.69
Total forward			\$10,755,083.20

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$10,014,260.14
7. Sinking Funds:			
<i>To Commissioners for Debt Requirements</i>			
137. From Taxes, Earnings, etc. . .	\$ 21,000.00		
138. From Special Assessments . .			
139. From Sale of Real Estate, etc.			
Total for Sinking Funds	\$ 21,000.00		\$ 21,000.00
8. Agency, Trust and Investment Transactions:			
<i>Agency</i>			
140. Taxes			
a. State		\$ 298,480.00	
b. Non-resident Bank		15,203.75	
c. County		159,133.66	
141. Liquor Licenses Remitted to the State		5.50	
142. Abolition of Grade Crossings		2,160.00	
143. All Other		107,524.04	
<i>Trust</i>			
144. Perpetual Care Funds		11,150.00	
145. Other Permanent Public Trust Funds			
146. Income Invested			
147. Private Trust Funds and Accounts			
Tax Titles		521.87	
<i>Investment</i>			
148. Sinking Fund Securities			
149. Investment Fund Securities .			
Total for Agency, Trust, and Investment Transactions		\$ 594,178.82	\$ 594,178.82
Total forward			\$10,629,438.96

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$10,755,083.20
16. Refunds:			
142. Taxes			
143. Licenses			
144. Special Assessments			
145. General Departments			
146. Public Service Enterprises ..			
147. Cemeteries			
148. Accrued Interest		\$ 2,020.20	
149. All Other		4,565.81	
Total Refunds		\$ 6,586.01	\$ 6,586.01
17. Transfers:			
150. Departmental			
Various Departments			
a. from			
b. from			
c. from			
d. from		\$ 28,906.84	
e. from			
f. from			
g. from			
h. from			
i. from			
j. from			
Total Transfers		\$ 28,906.84	\$ 28,906.84
18. Balances:			
151. General			
152. Sinking Fund			
153. Investment Fund			
154. Perpetual Care Fund			
155. Other Public Trust Fund ..			
156. Private Trust Funds and Ac- counts			
Total Cash on Hand Beginning of Year			\$ 809,259.32
Grand Total Receipts and Cash on Hand			\$11,599,835.37

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$10,629,438.96
9. Refunds:			
150. Taxes		\$ 1,515.26	
151. Licenses			
152. Special Assessments			
153. General Departments			
154. Public Service Enterprises ..			
155. Cemeteries			
156. Accrued Interest			
157. All Other			
Total Refunds		\$ 1,515.26	\$ 1,515.26
10. Transfers:			
158. Departmental			
a. to Health—Office		\$ 77.50	
b. to Health—Yard		1,083.13	
c. to Charity—Hospital ...		70.54	
d. to Charity—O. D. R. ...		252.41	
e. to Purchasing Agent ...		719.99	
f. to Engineering		10,322.58	
g. to Fire		66.00	
h. to Water Works		4,480.18	
i. to Buildings		10,815.59	
j. to Sealer		8.57	
k. to Bldgs.—Imp.		77.12	
l. to General Expenses ..		361.96	
m. to Cemeteries		52.00	
n. to Acquiring Land— New High School		169.19	
o. to Acquiring Land— Con. Schools		350.08	
Total Transfers		\$ 28,906.84	\$ 28,906.84
11. Balances:			
159. General			
160. Sinking Fund			
161. Investment Fund			
162. Perpetual Care Fund			
163. Other Public Trust Fund ...			
164. Private Trust Funds and Ac- counts			
Total Cash on Hand End of			
Year		\$ 939,974.31	\$ 939,974.31
Grand Total Payments and Cash on Hand			\$11,599,835.37

FINANCIAL STATEMENT
OF THE
CITY OF LOWELL, MASS.

BALANCE
APPROPRIATIONS
CASH RECEIPTS
TRANSFERS
PAYMENTS

From January 1, 1921 to December 31, 1921

REVENUE

Appropriations, Receipts and Payments

1—Commissioner of Public Safety

No.	Revenue Account	Expended	Cr. Bal. to 1922	Debit bal. to 1922	Unexpended from Revenue	Appropriations	Transfers	Cash Receipts	Total Appropriation
1—1	Mayor	\$ 5,853.46			\$ 5,853.46				\$ 5,853.46
1—8	Law	5,586.62		\$ 98.48	5,685.10				5,685.10
1—15	Insurance	6,693.95		3,380.95	10,074.90				10,074.90
2—1	Police	345,911.89			345,825.64			\$ 86.25	345,911.89
2—8	Fish and Game Warden	150.00			150.00				150.00
2—9	Pound Keeper	5.00			5.00				5.00
3—1	Health Office	41,075.71			40,941.65	\$ 77.50		56.56	41,075.71
3—2	Health Yard	141,591.63			140,508.50	1,083.13			141,591.63
3—3	Smoke Inspection	360.37		4.63	365.00				365.00
3—4	School Inspection	800.00			800.00				800.00
3—5	Animal Inspection	690.00			690.00				690.00
3—6	Milk Inspection	3,923.05			3,923.05				3,923.05
3—9	Isolation Hospital Maintenance	82,939.79		796.21	83,716.00			20.00	83,736.00
5—1	Charity—Hospital	168,677.50			168,566.21	70.54		40.75	168,677.50
5—2	Charity—O. D. R.	66,529.75			66,175.34	252.41		102.00	66,529.75
5—3	Charity—Mothers with Dep't Children	81,440.51		8,124.27	89,524.78			40.00	89,564.78
6—1	Soldiers' Benefits, Office	3,151.71							
6—2	Soldiers' Benefits, State Aid.	7,967.00							
6—3	Soldiers' Benefits, Military Aid	2,337.00							
6—4	Soldiers' Benefits, Soldiers' Relief	71,347.54		238.54	89,629.25			3,390.54	93,019.79
6—5	Soldiers' Benefits, German War	7,978.00							
6—6	Soldiers' Graves	386.71		127.00	386.71				386.71
8—2	Band Concerts	1,152.00		495.00	1,279.00				1,279.00
14—2	Revision Ordinances				495.00				495.50
		\$1,046,549.19		\$13,265.58	\$1,054,595.09	\$1,483.58	\$3,736.10	\$1,059,814.77	

2.—Commissioner of Finance

1—3	Auditor	\$ 8,041.15	\$.44	\$ 8,041.59	\$.44	\$ 8,041.59	\$ 8,041.59
1—4	Treasurer	21,325.49	14.05	21,333.50	14.05	21,333.50	21,339.54
1—5	Assessors	25,046.16	33.72	25,064.88	33.72	25,064.88	25,079.88
1—9	City Clerk	11,964.89	55.71	12,020.60	55.71	12,020.60	12,020.60
1—12	Elections and Registrars	40,447.81	3,143.99	43,585.65	3,143.99	43,585.65	43,591.80
1—13	Purchasing Agent	9,317.66	350.53	8,948.20	350.53	8,948.20	9,668.19
1—16	Registrar of Labor	762.54	11.38	773.92	11.38	773.92	773.92
1—17	Finance—General	2,258.49	41.51	2,300.44	41.51	2,300.44	2,300.00
14—3	Auditing City Books	800.00	22.50	822.50	22.50	822.50	822.50
		\$ 119,964.19	\$3,673.83	\$122,890.84	\$ 719.99	\$ 27.19	\$123,638.02

3.—Commissioner of Streets and Highways

1—11	Engineering	\$ 20,949.12	\$ 185.44	\$ 10,810.34	\$10,324.22	\$ 21,134.56
3—8	Sewer Maintenance	27,384.24	634.28	28,018.52		28,018.52
4—1	Street Maintenance	347,418.25	1,942.70	349,004.11		349,360.95
4—2	Street Sprinkling	39,399.12	54.18	39,453.30		39,453.30
4—3	Street Lighting	139,110.20		139,110.20		139,110.20
4—4	Court Awards Dummer St.					
Ex.	.....	12,771.20	603.80	13,375.00		13,375.00
		\$ 587,032.13	\$3,420.40	\$579,771.47	\$10,324.22	\$590,452.53

4.—Commissioner of Fire and Water

2—2	Fire	\$ 387,099.80		\$387,033.81	\$ 66.00	\$387,099.80
10—1	Water Works	473,400.11	58,887.05	17,640.00	4,480.18	414,513.06
2—12	Motor Driven Apparatus....	9,500.00	\$ 45.00	9,545.00		9,545.00
2—13	Purchasing Land in High-lands and Constructing Fire Engine House	13,376.81		13,376.81		13,376.81
		\$ 883,376.72	\$58,887.05	\$ 45.00	\$427,595.61	\$ 4,546.18
					\$392,392.88	\$824,534.67

12—Fixed Charges

No.	Revenue Account	Expended	Credit Balance to 1922	Debit Balance to 1922	Unexpended	Appropriations from Revenue	Transfers	Cash Receipts	Total Ap- propriation
12-1	Interest	\$ 341,540.02			\$86,759.98	\$ 428,300.00			\$ 428,300.00
12-2	City Debt	410,550.00				410,550.00			410,550.00
12-3	Sinking Fund	21,000.00				21,000.00			21,000.00
12-4	Payment and Retirement High School Loan	150,000.00				150,000.00			150,000.00
		\$ 923,090.02			\$86,759.98	\$1,009,850.00			\$1,009,850.00

13—Agency, Trust, Investments and Transactions

13-2	State Portion Poll Tax.....	\$ 85,776.00			\$ 4,083.00	\$ 90,759.00			\$ 90,759.00
13-3	Corporation Tax	28.44				28.44			28.44
13-4	Liquor Licenses	5.50				5.50			5.50
13-5	State Tax	298,480.00				298,480.00			298,480.00
13-6	State Highway Tax	2,654.00				2,654.00			2,654.00
13-7	Grade Crossings	2,160.00				2,160.00			2,160.00
13-8	County Tax	159,133.66				159,133.66			159,133.66
13-9	Non-Resident Bank Tax....	15,203.75				15,203.75			15,203.75
13-10	Special Army and Navy Tax	14,071.20				14,071.20			14,071.20
13-11	Bay State St. Ry. Tax....	4,661.32				4,661.32			4,661.32
13-12	Soldiers' Exemption	334.56				334.56			334.56
		\$ 582,508.43			\$ 4,083.00	\$ 587,491.43			\$ 587,491.43

5—Commissioner of Public Property and Licenses

No.	Revenue Account	Credit Balance to 1922	Debit Balance to 1922	Unexpended	Appropriations from Revenue	Transfers	Cash Receipts	Total Ap- propriation
1—7	License Commission	\$ 5,536.96		\$ 68.10	\$ 5,536.96			\$ 5,536.96
1—10	City Messenger	1,943.30			2,011.40			2,011.40
1—14	City Hall	31,698.30		264.29	31,566.70		131.60	31,698.30
2—3	Rifle Range	1,740.99			2,005.28			2,005.28
2—4	Buildings	138,157.40			127,262.85	10,815.59	78.96	138,157.40
2—5	Wires	4,583.52		59.88	4,643.40			4,643.40
2—6	Sealer	7,765.70			7,757.13	8.57		7,765.70
2—7	Moths	8,812.19		.31	8,812.50			8,812.50
2—10	Weigher	1,223.19		8.39	1,231.58			1,231.58
2—11	Waterways	232.13		113.87	346.00			346.00
2—14	Buildings—Improvements ...	10,077.12			10,000.00	77.21		10,077.12
3—7	Comfort Station	11,246.47			11,246.47			11,246.47
		\$ 223,017.27		\$ 514.84	\$212,420.27	\$10,901.28	\$ 210.56	\$223,532.11

6—Recreation

8—1	Parks	\$ 64,060.75			\$ 59,834.31		\$ 4,226.44	\$ 64,060.75
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7—School Department

7—1	Schools	\$1,056,836.44						
7—2	Vocational School	83,957.67			\$1,140,751.17		\$ 42.97	\$1,140,794.14
7—3	Textile School	10,000.00			10,000.00			10,000.00
7—4	Sight Savings Classes		\$ 200.00		200.00			200.00
7—5	Smith-Hughes Fund	3,805.47			3,805.47			3,805.47
		\$1,157,599.61	\$ 200.00		\$1,154,756.64		\$ 42.97	\$1,154,799.61

RECAPITULATION

January 1—December 31, 1920

REVENUE ACCOUNT

1	Public Safety	\$1,046,549.19	\$	13,265.58	\$1,054,595.09	\$	1,483.58	\$	3,736.10	\$1,059,814.77
2	Finance	119,964.19		3,673.83	122,890.84		719.99		27.19	123,638.02
3	Streets and Highways	587,032.13		3,420.40	579,771.47		10,324.22		356.84	590,452.53
4	Fire and Water	883,376.72			45.00		4,546.18		392,392.88	824,534.67
5	Public Property	223,017.27		\$58,887.05	212,420.27		10,901.28		210.56	223,532.11
6	Recreation	64,060.75		514.84	59,834.31				4,226.44	64,060.75
7	Schools	1,154,599.61	\$	200.00	1,154,756.64				42.97	1,154,799.61
8	Municipal Council	37,083.41			1,860.52		361.96		114.90	38,943.93
9	Library Trustees	30,645.17					52.00		41,034.91	41,086.91
11	Cemeteries			16,591.85	86,759.98	1,009,850.00			6,251.65	1,009,850.00
12	Fixed Charges	923,090.02								
13	Agency, Trust, Investments and Transactions	582,508.43			4,983.00	587,491.43				587,491.43
		\$5,676,421.95	\$	16,791.85	\$58,887.05	\$114,523.15	\$5,272,066.25	\$28,389.21	\$448,394.44	\$5,748,849.90

NON-REVENUE ACCOUNT

2	Public Property	\$	26,193.91	\$	3,806.09	\$	30,000.00	\$	30,000.00	
3	Public Safety		134,790.08		3,036.14		136,801.64		1,024.58	
4	Streets and Highways		324,446.78		26,642.35		315,000.00		36,060.63	
7	Schools		814,317.51		627,888.58	\$12,591.73	82,000.00	\$	1,345,665.09	
10	Fire and Water		77,685.98		4,559.84		62,000.00		20,245.82	
14	Unclassified		436,593.81		174,529.72				611,119.66	
		\$1,814,028.07	\$840,462.72	\$12,591.73	\$625,801.64	\$2,014,115.79	\$	519.27	\$	1,462.37
										\$2,654,490.79

7—School Department

	Expenditures	Credit Balance to 1922	Debit Balance to 1922	Unexpended	Appropriations from Loans	Transfers	Cash Receipts	Total Appropriation
7— 1 Acquiring Land and Construct- ing New High School.....	\$706,657.88	\$615,792.90	\$	241.73	\$1,322,039.86	\$169.19		\$1,322,450.78
7— 2 Acquiring Land and Construct- ing Schools	106,359.57	12,089.91		12,350.00	22,319.40	350.08	\$1,430.00	118,449.48
7— 3 Construction Schools, 1920....	1,300.06	5.77			1,305.83			1,305.83
	\$814,317.51	\$627,888.58		\$12,591.73	\$1,345,665.09	\$519.27	\$1,430.00	\$1,442,206.09

10—Commissioner of Fire and Water

2— 2 Construction Fire Eng. House..	\$ 30,903.67	\$ 1,096.33			\$32,000.00		\$	\$ 32,000.00
10— 1 Extension Water Mains and Departmental Equipment	46,782.31			\$	16,782.31	30,000.00		46,782.31
10— 2 Acquiring Land and Protecting Water Supply		\$ 3,463.51			3,463.51			3,463.51
	\$77,685.98	\$	4,559.84	\$	20,463.51	\$ 62,000.00	\$	\$ 82,245.82

14—Unclassified

14— 2 Lowell Memorial Auditorium..	\$436,593.81	\$174,529.72		\$	611,119.66		\$	\$ 3.87 \$ 611,123.53
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NON REVENUE APPROPRIATIONS, RECEIPTS AND PAYMENTS

2---Commissioner Public Property

No.	Non Revenue Account	Expended	Balance Appropriations to 1922 from Revenue	Balance Appropriations from Loans	Transfers	Cash Receipts	Total Appropriation
2— 1	Constructing Fire Eng. House, including cost of original equip..	\$ 26,193.91	\$ 3,806.09		\$ 30,000.00		\$ 30,000.00

3---Commissioner Public Safety

3— 1	Sewer Construction	\$132,455.17	\$ 2,906.02		\$ 361.19	\$135,000.00	135,361.19
3— 2	Isolation Hospital—Equipment and Furnishings	2,289.71	49.72		537.79		2,339.43
3— 3	Pub. Bath and Comfort Station	45.20	80.40		125.60	1,801.64	125.60
		\$134,790.08	\$ 3,036.14		\$ 1,024.58	\$136,801.64	\$ 137,826.22

4---Commissioner Streets and Highways

4— 1	Pavings	\$106,825.55	\$ 308.77				
4— 2	Macadamizing	89,802.49	230.42				\$ 28.50
4— 3	New Sidewalks	18,387.47	1,619.95		2,105.82	\$105,000.00	\$ 107,134.32
4— 3	Bridge Construction	104,144.72	11,580.46		32.91	90,000.00	90,032.91
4— 5	Construction and Extension of First Street		12,004.05		7.42	20,000.00	20,007.42
4— 6	Widening Locke Street.....	5,286.55	898.70		15,725.18	100,000.00	115,725.18
					12,004.05		12,004.05
					6,185.25		6,185.25
		\$324,446.78	\$ 26,642.35		\$ 36,060.63	\$315,000.00	\$ 351,089.13

CLASSIFICATION OF
DEPARTMENTAL EXPENSES
AND
REVENUE

MAYOR'S DEPARTMENT

Balance from 1920	\$	370.33	
Appropriation		5,837.71	
		<hr/>	\$ 6,208.04

Expended

Salaries:

To Perry D. Thompson,		
Commissioner of Public Safety	\$	3,000.00
Arthur T. Woodies, Secretary		2,086.66

Other Expenses:

For Automobile, Supplies, Repairs	269.89	
Office Supplies	141.25	
Telephone	51.80	
Transfer, 1920	354.58	
Transfers, 1921	28.00	
All other	275.86	
	<hr/>	\$ 6,208.04

COMMISSIONERS

Appropriation	\$ 10,000.00	
	<hr/>	\$ 10,000.00

Expended

Salaries:

To Commissioners	\$ 10,000.00	
	<hr/>	\$ 10,000.00

AUDITING DEPARTMENT

Balance from 1920	\$ 158.55	
Appropriation	8,032.89	
	<hr/>	\$ 8,191.44
Expended		
Salaries:		
To J. Joseph Hennessy, Auditor	\$ 3,190.14	
Clerks	4,295.50	
Other Expenses:		
For Office Supplies	\$ 137.26	
Printing, Binding	50.50	
Telephone	54.80	
Transfer, 1920	149.85	
Transfer, 1921	10.00	
All Other	302.95	
	<hr/>	\$ 8,191.00
Returned to Treasury .....		.44
		<hr/>
		\$ 8,191.44

TREASURER AND COLLECTOR'S DEPARTMENT

Balance from 1920	\$ 16.02	
Appropriation	21,323.52	
	<hr/>	\$ 21,339.54
Expended		
Salaries:		
To Fred H. Rourke, Treasurer and Collector	\$ 3,188.03	
Clerks	12,905.29	
Writing and Distributing Tax Bills	481.66	
Other Expenses:		
For Advertising	465.81	
Office Supplies	617.58	
Postage Stamps	1,404.20	
Premiums on Bonds	205.00	
Printing, Binding	1,405.51	
Telephone	51.15	
Transportation	474.00	
All Other	127.26	
	<hr/>	\$ 21,325.49
Returned to Treasury		14.05
		<hr/>
		\$ 21,339.54

ASSESSORS' DEPARTMENT

Balance from 1920	\$	98.95	
Appropriation		24,980.93	
		<hr/>	\$ 25,079.88

Expended

Salaries:

To Albert J. Blazon, Assessor	\$	2,790.75
John H. Dwyer, Successor to		
Mr. O'Sullivan		513.89
Daniel E. Hogan, Assessor		2,790.65
Jeremiah J. O'Sullivan, Assessor		2,270.62
Permanent Clerks		5,557.24
Temporary Clerks		4,264.58
Assistant Assessors		2,954.92

Other Expenses:

For Advertising		163.71
Office Supplies		417.09
Printing, Binding		3,067.57
Telephone		14.50
Transfers		40.00
All Other		199.64
		<hr/>
		\$ 25,046.16

Returned to Treasury		33.72
		<hr/>
		\$ 25,079.88

ASSESSORS' TAX BOOKS

Balance from 1920	\$	5.25	
		<hr/>	\$ 5.25

Expended

Transfer, 1920	\$	5.25	
		<hr/>	\$ 5.25

LICENSE COMMISSION

Balance from 1920	\$	10.91	
Appropriation		5,536.96	
		<hr/>	\$ 5,547.87

Expended

Salaries:

To Charles H. Hanson, License Commissioner	\$	896.19
George E. Putnam, License Commissioner		846.47
Joseph M. McGrath, License Commissioner		846.47
Clerk		2,415.00
Temporary Clerk		268.00

Other Expenses:

For Advertising		55.89
Office Supplies		59.14
Printing, Binding		91.50
Telephone		49.30
Transfer, 1920		10.91
All Other		9.00
		<hr/>
	\$	5,547.87

LAW DEPARTMENT

Appropriation	\$	5,661.33	
Balance from 1920		23.77	
		<hr/>	\$ 5,685.10

Expended

Salaries:

To William D. Regan, City Solicitor	\$	3,184.75
Clerk		1,265.00

Other Expenses:

For Books		327.55
Office Supplies		145.83
Printing, Binding		70.00
Telephone		86.95
Transfers		21.00
All Other		485.54
		<hr/>
		5,586.62

Returned to Treasury		98.48
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\$ 5,685.10

CITY CLERK'S DEPARTMENT

Balance from 1920	\$ 134.59	
Appropriation	11,886.01	
	<hr/>	\$ 12,020.60

Expended

Salaries:

To Stephen Flynn, City Clerk	\$ 2,787.38
Wm. P. McCarthy, Assistant City Clerk	2,415.00
Clerks	4,600.00

Other Expenses:

For Advertising	8.32	
Birth Returns	1,133.30	
Office Supplies	268.10	
Printing, Binding	601.13	
Telephone	16.75	
All Other	134.91	
	<hr/>	\$ 11,964.89

Returned to Treasury	55.71
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\$ 12,020.60
CITY MESSENGER'S DEPARTMENT

Balance from 1920	\$ 10.25	
Appropriation	2,010.30	
	<hr/>	\$ 2,020.55

Expended

Salary:

To Owen A. Monahan, Messenger	\$ 1,905.35
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Other Expenses:

For Printing, Binding	1.75	
Telephone	19.20	
Transfer, 1920	9.15	
Transfers	6.00	
All Other	11.00	
	<hr/>	\$ 1,952.45

Returned to Treasury	68.10
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\$ 2,020.55

ENGINEERING DEPARTMENT

Balance from 1920	\$ 43.87	
Appropriation	21,090.69	
	<hr/>	\$ 21,134.56

Expended

Salaries and Wages:

To Stephen Kearney, City Engineer	\$ 2,986.94
Clerk	1,290.50
All Other Service	13,999.83

Other Expenses:

For Auto Repairs, Supplies	1,949.24	
Office Supplies	341.39	
Printing, Binding	85.25	
Telephone	37.15	
Transfers	8.00	
All Other	250.82	
	<hr/>	\$ 20,949.12
Returned to Treasury		185.44
		<hr/>
		\$ 21,134.56

ELECTIONS AND REGISTRATION

Balance from 1920	\$	29.49	
Appropriation		43,562.31	
		<hr/>	\$ 43,591.80

Expended

Salaries and Wages:

To H. C. McOsler, Election Commissioner	\$	996.74
J. O. Allard, Election Commissioner		895.91
F. Harrison, Election Commissioner		220.91
J. H. Maguire, Election Commissioner ...		900.00
T. H. Braden, Election Commissioner		675.00
Clerk		581.00
Precinct Officers		12,516.00
Registrars' Assistants		4,349.00
All Other		2,421.62

Expended

Other Expenses:

For Advertising	836.96	
Equipment, Hardware, etc.	1,134.74	
Miscellaneous	846.05	
Office Supplies	641.40	
Printing, Binding	8,159.04	
Teaming	1,057.43	
Telephone	107.60	
Transfers	2,859.86	
All Other	1,248.55	
	<hr/>	\$ 40,447.81
Returned to Treasury		3,143.99
		<hr/>
		\$ 43,591.80

PURCHASING DEPARTMENT

Balance from 1920	\$ 552.30	
Appropriation	9,119.99	
	<hr/>	\$ 9,672.29
Expended		
Salaries:		
To Edward H. Foye, Purchasing Agent	\$ 2,588.09	
Inspector	1,555.00	
Clerks	2,780.00	
Other Expenses:		
For Advertising	82.53	
Office Supplies	1,903.08	
Printing, Binding	147.00	
Telephone	27.94	
Transfer, 1920	4.10	
All Other	234.02	
	<hr/>	\$ 9,321.76
Returned to Treasury		350.53
		<hr/>
		\$ 9,672.29

CITY HALL DEPARTMENT

Balance from 1920	\$ 49.28	
Appropriation	31,649.02	
	<hr/>	\$ 31,698.30
Expended		
Wages:		
To Engineers and Firemen	7,047.08	
Elevator Service	1,461.70	
Janitors	4,408.78	
Matrons	4,888.46	
Other Expenses:		
For Fuel	8,381.37	
Furniture and Fittings	931.68	
Ice	442.80	
Janitors' Supplies	766.94	
Laundry	165.83	
Lighting	1,897.76	
Miscellaneous	174.69	
Transfers	13.00	
Water	518.50	
All Other	599.71	
	<hr/>	\$ 31,698.30

INSURANCE

Balance from 1920	\$ 3,533.69	
Appropriation	10,000.00	
	<hr/>	\$ 13,533.69
Expended		
To Various Persons and Firms	\$ 6,693.95	
Transfer, 1920	3,458.79	
	<hr/>	\$ 10,152.74
Returned to Treasury		3,380.95
		<hr/>
		\$ 13,533.69

REGISTRAR OF LABOR

Balance from 1920	\$ 34.37	
Appropriation	773.92	
	<hr/>	\$ 808.29
Expended		
Salary:		
To Patrick J. Reynolds	\$ 698.37	
Other Expenses:		
For Printing	23.25	
Transfer, 1920	34.37	
Transfers, 1921	12.00	
All Other	28.92	
	<hr/>	\$ 796.91
Returned to Treasury		11.38
		<hr/>
		\$ 808.29

FINANCE GENERAL

Appropriation	\$ 2,300.00	
	<hr/>	\$ 2,300.00
Expended		
Other Expenses:		
For Automobile	\$ 2,000.00	
Automobile Repairs, Supplies	258.49	
	<hr/>	\$ 2,258.49
Returned to Treasury		41.51
		<hr/>
		\$ 2,300.00

REVENUE—Protection Persons and Public Property**POLICE DEPARTMENT**

Appropriation	345,911.89	
	<hr/>	\$ 345,911.89

Expended

Salaries and Wages:

To Redmond Welch, Chief of Police	\$ 3,000.00
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All Other Salaries and Wages	296,206.41
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Other Expenses:

For Auto, Care, Supplies	5,066.24
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Coal and Wood	1,976.58
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Debit Balance from 1920	22,473.72
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Hay, Grain, etc.	168.78
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Harnesses, Stable Supplies	10.30
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Janitors' Supplies	802.44
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Laundry	66.46
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Lighting	1,027.39
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Motorcycle, Care, Supplies	847.80
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Office Supplies, Printing	2,280.36
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Pensions	9,529.66
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Prisoner's Care and Transportation	69.52
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Shoeing	62.35
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Telephone	296.79
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Transfers	56.99
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Water	303.89
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All Other Supplies	923.39
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All Other Expenses	742.82
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	<hr/>	\$ 345,911.89
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FIRE DEPARTMENT

Appropriation	\$ 387,099.80
	<hr/> \$ 387,099.80

Expended

Salaries and Wages:

To Edward F. Saunders	\$ 2,989.12
All Other Salaries and Wages	325,352.13

Other Expenses:

Equipment and Repairs:

For Hose and Fittings	5,358.85
All Other Expenses	2,987.63

Horses and Care of Same:

For Hay, Grain, Straw, etc.	4,608.61
Shoeing	900.20
Stable Supplies, Harness, etc.	2,289.34

Main Buildings and Grounds:

For Coal and Wood	8,688.55
Gas and Electricity	3,097.53
Laundry	807.83

Other Expenses:

For Automobile, Repairs, Supplies	6,903.45
Debit Balance from 1920	8,016.22
Fire Alarm Boxes	2,395.65
Insurance	534.05
Office Supplies and Printing	506.03
Pensions	9,090.80
Telephone	320.36
Transfers	14.00
Various Other Supplies	607.38
Water	874.92
All Other Expenses	757.15
	<hr/> \$ 387,099.80

RIFLE RANGE DEPARTMENT

Balance from 1920	\$ 16.29	
Appropriation	2,000.00	
	<hr/>	\$ 2,016.29

Expended

Salary:		
To Raymond Eastman, Keeper	\$ 1,252.00	
All Other	77.54	
Other Expenses:		
For Telephone	68.97	
Transfer, 1920	11.01	
All Other	342.48	
	<hr/>	\$ 1,752.00
Returned to Treasury		264.29
		<hr/>
		\$ 2,016.29

INSPECTION BUILDINGS

Balance from 1920	\$ 7.55	
Appropriation	138,149.85	
	<hr/>	\$ 138,157.40

Expended

Salaries and Wages:		
To Francis A. Connor, Superintendent of		
Public Buildings	\$ 2,404.38	
All Other Salaries and Labor	76,306.60	
For Automobile, Supplies and Repairs	3,053.44	
Electrical Work and Supplies	4,679.84	
Fuel, Light and Power	448.83	
Furniture and Furnishings	120.75	
Hardware	2,599.50	
Harnesses, Stable Supplies, etc.	2,157.58	
Lumber	6,424.63	
Mason Work and Supplies	6,796.23	
Office Supplies and Printing	633.19	
Paints, Oils, Glass, etc.,	6,032.70	
Pensions	281.71	
Pipe Fittings, Heating, Plumbing	18,146.49	
Roofing	6,643.75	
Shoeing	247.40	
Telephone	43.55	
Transfers	194.11	
All Other	942.72	
	<hr/>	\$ 138,157.40

INSPECTION WIRES

Balance from 1920	\$ 13.50	
Appropriation	4,629.90	
	<hr/>	\$ 4,643.40

Expended

Salaries:		
To William H. Mahans, Inspector Wires ...	\$ 2,026.27	
All Other	1,334.50	
Other Expenses:		
For Automobile, Supplies, Repairs	746.24	
Office Supplies, Printing	256.55	
Telephone	12.95	
Transfers	94.29	
All Other	112.72	
	<hr/>	\$ 4,583.52
Returned to Treasury		59.88
		<hr/>
		\$ 4,643.40

SEALER, WEIGHTS AND MEASURES

Balance from 1920	\$ 25.60	
Appropriation	7,740.10	
	<hr/>	\$ 7,765.70

Expended

Salaries:		
To Warren P. Riordan, City Sealer	\$ 2,005.51	
All Other Service	4,573.58	
Other Expenses:		
For Advertising	34.31	
Equipment	269.79	
Office Supplies, Printing	97.01	
Telephone	113.90	
Transfers	374.00	
Transportation	154.43	
All Other	143.17	
	<hr/>	\$ 7,765.70

FORESTRY—MOTH EXTERMINATION

Balance from 1920	\$	12.52	
Appropriation		8,800.00	
		<hr/>	\$ 8,812.52

Expended

Salaries and Wages:			
To John G. Gordon	\$	1,894.50	
All Other Service		4,960.95	
Other Expenses:			
For Advertising		58.74	
Arsenate of Lead		736.56	
Equipment, Hardware, Repairs		392.58	
Office Supplies, Printing		58.25	
Transfer, 1920 .....		.02	
Transfers		64.86	
Transportation		412.94	
All Other Expenses		232.81	
		<hr/>	\$ 8,812.21
Returned to Treasury .....			.31
			<hr/>
			\$ 8,812.52

FISH AND GAME WARDENS

Appropriation	\$	150.00	
		<hr/>	\$ 150.00

Expended

Salaries:			
To Harry Gonzales		100.00	
Elmer H. Houghton		50.00	
		<hr/>	\$ 150.00

POUND KEEPER

Appropriation	\$	5.00	
		<hr/>	\$ 5.00

Expended

Salary:			
To A. B. Humphrey	\$	5.00	
		<hr/>	\$ 5.00

CITY WEIGHER

Balance from 1920	\$ 10.91	
Appropriation	1,231.58	
	<hr/>	\$ 1,242.49

Expended

Salary:		
To George Enwright	\$ 1,202.19	
Other Expenses:		
For Printing	21.00	
Transfer, 1920	10.91	
	<hr/>	\$ 1,234.10
Returned to Treasury		8.39
		<hr/>
		\$ 1,242.49

WATERWAYS

Balance from 1920	\$ 495.32	
Appropriation	250.00	
	<hr/>	\$ 745.32

Expended

Other Expenses:		
For Equipment	\$ 210.40	
Transfer, 1920.	399.32	
Transfers, 1921	21.73	
	<hr/>	\$ 631.45
Returned to Treasury		113.87
		<hr/>
		\$ 745.32

MOTOR DRIVEN APPARATUS

Balance from 1920	\$ 9,545.00	
	<hr/>	\$ 9,545.00

Expended

Other Expenses:		
For Motor Driven Apparatus	\$ 9,500.00	
	<hr/>	\$ 9,500.00
Returned to Treasury		45.00
		<hr/>
		\$ 9,545.00

PURCHASING LAND IN HIGHLANDS AND CONSTRUCTING FIRE ENGINE HOUSE

Balance from 1920	\$ 13,376.81	
	\$ 13,376.81	

Expended

Other Expenses:		
For Advertising	\$ 89.41	
Architects' Services	1,286.38	
Contracts	11,913.10	
Transfers	64.92	
All Other	23.00	
	\$ 13,376.81	

BUILDING IMPROVEMENTS

Appropriation	\$ 10,077.12	
	\$ 10,077.12	

Expended

Wages:		
To Labor	\$ 2,289.58	
Other Expenses:		
For Repair Work	7,726.56	
Transfers	13.75	
All Other	47.23	
	\$ 10,077.12	

REVENUE—Health and Sanitation**HEALTH OFFICE**

Appropriations	\$ 41,075.71	
	<hr/>	\$ 41,075.71

Expended

Salaries and Wages:

To P. Brunelle, T. F. Carroll, J. E. Drury,	
Board of Health	\$ 2,095.11
Francis J. O'Hare, Agent	2,300.02
All Other Service	19,072.04

Other Expenses:

For Automobile, Repairs, Supplies	564.21
Bacteriologist	1,000.00
Board and Treatment	6,893.14
Debit Balance from 1920	1,815.37
Dry Goods, Clothing, etc.	131.60
Drugs, Medicines, etc.	1,493.54
Groceries and Provisions	1,561.17
Medical Attendance	697.06
Office Supplies, Printing	1,216.74
Telephone	93.79
Transfers	619.19
Transportation, Traveling Expenses	1,118.73
All Other Expenses	404.00
	<hr/>
	\$ 41,075.71

REFUSE AND GARBAGE

Appropriation	\$141,591.63	
	<hr/>	\$141,591.63

Expended

Wages:		
To Labor	\$106,821.24	
Other Expenses:		
For Debit Balance from 1920	7,187.03	
Fuel	1,001.94	
Hardware, Blacksmiths' Supplies	1,942.08	
Harnesses, Stable Supplies, etc.	1,176.84	
Hay, Grain, etc.	19,935.49	
Hire Horses, Teaming, etc.	1,780.00	
Laundry	945.00	
Lighting	262.52	
Water	278.50	
All Other	260.99	
	<hr/>	\$141,591.63

SMOKE INSPECTION

Balance from 1920	\$ 34.33	
Appropriation	360.00	
	<hr/>	\$ 394.33

Expended

Salary:		
To Charles J. Riley	\$ 348.65	
Other Expenses:		
For Transfer, 1920	29.33	
Transportation	10.00	
All Other	1.72	
	<hr/>	\$ 389.70
Returned to Treasury		4.63
	<hr/>	\$ 394.33

INSPECTION SCHOOL CHILDREN

Appropriation	\$ 800.00	
	<u> </u>	\$ 800.00

Expended

Salaries:

To Various Physicians	\$ 800.00	
	<u> </u>	\$ 800.00

INSPECTION ANIMALS

Appropriation	\$ 690.00	
	<u> </u>	\$ 690.00

Expended

Salary:

To Dr. W. A. Sherman, Inspector	\$ 600.00	
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Other Expenses:

For Debit Balance from 1920	90.00	
	<u> </u>	\$ 690.00

INSPECTION MILK AND VINEGAR

Appropriations	\$ 3,923.05	
	<u> </u>	\$ 3,923.05

Expended

Salaries:

To Melvin F. Master, Inspector	\$ 2,070.00	
Collector	1,290.09	

Other Expenses:

For Chemical Equipment and Supplies	176.91	
Debit Balance from 1920	106.44	
Office Supplies and Printing	138.70	
Telephone	70.00	
Transportation, Traveling Expenses	32.69	
All Other	38.22	
	<u> </u>	\$ 3,923.05

COMFORT STATION

Appropriation	\$ 11,246.47	
	<hr/>	\$ 11,246.47

Expended

Wages:		
To Labor	\$ 8,357.52	
Other Expenses:		
For Debit Balance from 1920	338.06	
Fuel, Light and Power	619.77	
Janitors' Supplies	784.60	
Various Other Supplies	62.25	
Water	1,066.93	
All Other Expenses	17.34	
	<hr/>	\$ 11,246.47

SEWER MAINTENANCE

Balance from 1920	\$ 153.94	
Appropriation	27,886.60	
	<hr/>	\$ 28,040.54

Expended

Wages:		
To Labor	25,507.24	
Other Expenses:		
For Equipment, Hardware	1,233.82	
Fuel and Lighting	285.66	
Transfer, 1920	22.02	
Various Other Supplies	72.17	
All Other Expenses	285.35	
	<hr/>	\$ 27,406.26
Returned to Treasury		634.28
		<hr/>
		\$ 28,040.54

ISOLATION HOSPITAL

Balance from 1920	\$ 396.00	
Appropriation	83,340.00	
	<hr/>	\$ 83,736.00

Expended

Salaries and Wages:		
To Forster H. Smith, Superintendent	\$ 1,800.00	
Labor	25,317.24	
Other Expenses:		
For Automobile Supplies, Repairs	171.35	
Drugs, Chemicals, etc.	2,820.75	
Dry Goods, Clothing	6,693.49	
Fuel, Light, Power	12,496.09	
Groceries and Provisions	22,649.41	
Hardware, Equipment, etc.	6,955.46	
Office Supplies, Printing	422.95	
Telephone	69.95	
Transfers	26.00	
Transportation	113.60	
Various Other Supplies	281.07	
Water	1,376.76	
All Other Expenses	1,745.67	
	<hr/>	\$ 82,939.79
Returned to Treasury		796.21
		<hr/>
		\$ 83,736.00

REVENUE—Highways and Bridge

Balance from 1920	\$ 119.50	
Appropriation	349,241.45	
	<hr/>	\$349,360.95

Expended

Salaries and Wages:

To John B. Blessington, Superintendent ..	\$ 1,275.02
Henry J. Bowers, Superintendent	1,108.83
Henry P. Doherty, Superintendent	135.32
Clerical Service and Labor	293,481.52

Other Expenses:

For Automobile Repairs, Supplies	11,172.23	
Concrete, Tar, Oils and Asphalt	2,949.28	
Equipment, Hardware, etc.	4,135.54	
Fuel	585.87	
Harnesses, Stable Supplies	1,165.90	
Hay, Grain, etc.	18,060.92	
Horse Medicine, Veterinary Service	239.65	
Insurance	260.70	
Lime Brick and Cement	363.53	
Lighting	472.37	
Lumber	303.13	
Office Supplies, Printing, Binding	531.22	
Pensions	3,071.48	
Teaming, Use of Horses and Autos	1,164.34	
Telephone	169.65	
Transfers	2,476.81	
Transportation, Traveling, Expenses	778.91	
Various Other Supplies	705.45	
Water	681.56	
All Other Expenses	2,069.02	
	<hr/>	\$ 347,418.25
Returned to Treasury		1,942.70

\$ 349,360.95

STREET LIGHTING

Balance from 1920	\$ 10,342.60	
Appropriation	128,823.46	
	<hr/>	\$139,166.06

Expended

Other Expenses:		
For Electrical Lighting	\$ 96,597.62	
Gas Lighting	42,512.58	
Transfer, 1920	55.86	
	<hr/>	\$139,166.06

STREET SPRINKLING

Balance from 1920	\$ 130.27	
Appropriation	39,363.30	
	<hr/>	\$ 39,493.57

Expended

Wages:		
To Labor	\$ 12,440.88	
Other Expenses:		
For Oil and Applying Oil	9,873.74	
Transfer, 1920	40.27	
Transfer, 1921	324.32	
Use of Track Power and Street Sprinkler..	13,557.64	
Water	2,800.00	
All Other Expenses	402.54	
	<hr/>	\$ 39,439.39
Returned to Treasury		54.18
		<hr/>
		\$ 39,493.57

AWARDS IN DUMMER ST. EXTENSION SUITS

Appropriation	\$ 13,375.00	
	<hr/>	\$ 13,375.00

Expended

Other Expenses:

For Payments to Various Persons	\$ 12,671.20	
Services	100.00	
	<hr/>	\$ 12,771.20
Returned to Treasury		603.80
		<hr/>
		\$ 13,375.00

REVENUE—Charities**CHARITY—CHELMSFORD ST. HOSPITAL**

Balance from 1920	\$ 7,287.04	
Appropriation	153,167.74	
Credit Transfer	8,222.72	
	<hr/>	\$168,677.50

Expended

Salaries and Wages:

To Michael A. Tighe, M.D., City Physician	\$ 1,395.23
All Other Service	26,368.34

Other Expenses:

For Drugs, Chemicals, etc.,	2,062.55	
Dry Goods, Clothing, etc.	6,707.92	
Equipment, Hardware, etc.	2,906.60	
Furniture	692.63	
Groceries, Provisions	92,179.29	
Hay, Grain, Straw	5,486.25	
Harnesses, Stable Supplies, Shoeing	1,212.92	
Ice	1,477.50	
Office Supplies, Printing	167.27	
Power, Fuel, Light	21,855.36	
Telephone	44.75	
Transfer, 1921	1,102.39	
Transportation	104.49	
Various Other Supplies	850.49	
Water	2,140.37	
All Other Expenses	1,923.15	
	<hr/>	\$168,677.50

CHARITY—OUTSIDE RELIEF

Appropriation	\$ 66,529.75	
		\$ 66,529.75

Expended

Salaries and Wages:

To Martin F. Conley, Superintendent	\$ 2,192.38
Various Physicians	2,070.00
All Other Service	8,613.16

Other Expenses:

For Ambulance, Service, Insurance	6,201.09
Auto Repairs, Supplies	741.08
Burials	152.00
Cash Allowance	16,641.00
Coal and Wood	10,192.81
Debit Balance from 1920	1,280.19
Hardware, Equipment	540.53
Medicines and Medical Attendance	2,481.96
Office Supplies, Printing	444.98

Outside Relief:

State Institutions	5,255.82
Other Institutions	4,514.30

Relief, Other Cities, Towns:

Cities	2,430.61
Towns	1,712.73
Transfers	423.84
Transportation	294.74
Various Other Supplies	151.04
All Other Expenses	195.49

 \$ 66,529.75

MOTHERS—DEPENDENT CHILDREN

Balance from 1920	\$ 740.05	
Appropriation	89,351.64	
	<hr/>	\$ 90,091.69

Expended

Other Expenses:

For Board and Care	\$ 516.50	
Burials	25.30	
Mothers with Dependent Children	76,683.33	
Outside Aid	3,752.98	
Physicians	345.00	
Transfer, 1920	526.91	
Transfers, 1921	8.00	
All Other Expenses	109.40	
	<hr/>	\$ 81,967.42
Returned to Treasury		8,124.27
		<hr/>
		\$ 90,091.69

REVENUE—Soldiers' Benefits

Balance from 1920	\$	93.63	
Appropriations		92,926.16	
		<hr/>	\$ 93,019.79

Expended

Salaries:			
To William A. Arnold, Supt. State Aid....	\$	1,399.00	
All Other Service		1,150.00	
Other Expenses:			
For Office Supplies, Printing.....		233.16	
Telephone		7.05	
Transfers		20.85	
All Other Expenses		341.65	
State Aid:			
To Various Persons		7,967.00	
Military Aid:			
To Various Persons		2,337.00	
Soldiers' Relief:			
For Aid (Various Persons)		64,727.00	
Burials		414.30	
Fuel		271.80	
Groceries and Provisions		5,137.15	
Medicine and Medical Attendance		700.32	
Transfers		40.60	
All Other Expenses		56.37	
German War:			
Aid to Various Persons		7,978.00	
		<hr/>	\$ 92,781.25
Returned to Treasury			238.54
			<hr/>
			\$ 93,019.79

SOLDIERS' GRAVES

Balances from 1920	\$	166.09	
Appropriation		386.71	
		<hr/>	\$ 552.80

Expended

Other Expenses :			
For Expenses	\$	386.71	
Transfer 1920		166.09	
		<hr/>	\$ 552.80

REVENUE—Education**SCHOOL DEPARTMENT**

Balance from 1920	\$	214.34	
Appropriation	\$1,140,579.80		
			\$1,140,794.14

Expended**Salaries and Wages:**

To Hugh J. Molloy	\$	5,000.04
All Other Salaries and Labor		878,371.33

Other Expenses:

For Automobile, Supplies and Repairs.....	7,141.05
Board of Truants Training School.....	2,178.86
Cooking and Sewing Supplies	3,032.87
Drugs and Chemicals	706.98
Fuel and Light	51,119.77
Furniture and Furnishings.....	8,030.75
Hardware and Equipment	6,817.86
Insurance	927.60
Laundry	2,309.32
Lumber	3,476.24
Office Supplies	2,240.78
Paper, Pens, Pencils.....	19,616.89
Pensions	774.29
Provisions	1,537.88
Printing	3,449.70
Rental St. Anne's Parish House.....	1,625.00
Rental Theatre	350.00
Telephone	1,118.11
Text and Reference Books	32,677.47
Transportation	2,743.40
Transfers	6,204.40
Various Other Supplies	5,055.02
Water	4,604.51
All Other Expenses	5,726.35

VOCATIONAL SCHOOL

Salaries and Wages:

To Various Persons	\$ 62,261.74
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Other Expenses:

For Automobile, Supplies, Repairs.....	667.13
Electrical Supplies	2,445.21
Groceries and Provisions	1,823.17
Hardware	3,675.98
Laundry	503.12
Lumber	983.57
Machinery, Tools, etc.	5,012.07
Power, Fuel, Light	3,504.05
Printing, Office Supplies	793.48
Supplies for Girls' Course	841.11
Text and Reference Books	159.71
Telephone	141.03
Transfers	20.00
Various Other Supplies	303.12
All Other Supplies	823.18
	<hr/>
	\$1,140,794.14

TEXTILE SCHOOL

Appropriation	\$ 10,000.00	
	<hr/>	\$ 10,000.00

Expended

To Commonwealth of Massachusetts	\$ 10,000.00	
	<hr/>	\$ 10,000.00

SIGHT SAVING CLASSES

Balance from 1920	\$ 565.35	
Appropriation	200.00	
	<hr/>	765.35

Expended

Transfer 1920	\$ 565.35	
	<hr/>	\$ 565.35
Credit Balance from 1922		200.00
	<hr/>	\$ 765.35

SMITH HUGHES FUND

Balance from 1920	\$	68.00	
Appropriation		3,737.47	
		<hr/>	\$ 3,805.47

Expended

Salaries:

To Various Persons	\$	3,805.47	
		<hr/>	\$ 3,805.47

REVENUE—Recreation**PARK DEPARTMENT**

Balance from 1920	\$	2,834.33	
Appropriation		61,226.42	
		<hr/>	\$ 64,060.77

Expended

Salaries and Wages:			
To Various Persons	\$	38,617.01	
Labor on Playgrounds		1,040.40	
Other Expenses:			
For Auto, Supplies, Repairs		2,837.45	
Contract Work		5,405.35	
Hardware, Equipment, etc.		1,877.97	
Hay, Grain, etc.		309.16	
Moving Pictures		688.00	
Office Supplies, Printing		333.61	
Plants, Trees, etc.		1,353.45	
Sand, Stone, Cinders, etc.		5,009.82	
Telephone		87.58	
Transfer 1920 .....		.02	
Transfers		151.08	
Transportation		618.19	
Various Other Supplies		2,671.26	
All Other Expenses		3,060.42	
		<hr/>	\$ 64,060.77

BAND CONCERTS

Balance from 1920	\$	93.00	
Appropriation		1,186.00	
		<hr/>	\$ 1,279.00

Expended

Other Expenses:			
For Music	\$	1,152.00	
		<hr/>	\$ 1,152.00
Returned to Treasury			127.00
			<hr/>
			\$ 1,279.00

MEMORIAL DAY—G.A.R.

Appropriation	\$	1,000.00	
		<hr/>	\$ 1,000.00

Expended

Other Expenses:

For Collations	\$	50.00	
Flags and Standards		186.48	
Flowers and Decorations		80.00	
Music		319.00	
Transportation		151.50	
All Other Expenses		213.02	
		<hr/>	\$ 1,000.00

MEMORIAL DAY—S.W.V.

Balance from 1920 .....	\$	.19	
Appropriation	\$	502.40	
		<hr/>	\$ 502.59

Expended

Other Expenses:

For Collations	\$	150.00	
Flags and Standards		182.29	
Flowers and Decorations		51.80	
Music		30.00	
Transfer 1920 .....		.19	
Transportation		30.00	
All Other		55.59	
		<hr/>	\$ 499.87
Returned to Treasury			2.72
			<hr/>
	\$		502.59

MEMORIAL DAY—S. OF V.

Appropriation	\$	200.00	
		<hr/>	\$ 200.00

Expended

Other Expenses:

For Various Expenses	\$	200.00	
		<hr/>	\$ 200.00

LABOR DAY

Balance from 1920	\$	27.20	
Appropriation		1,200.00	
		<hr/>	\$ 1,227.20

Expended

Other Expenses:			
For Transfer 1920	\$	27.20	
		<hr/>	\$ 27.20
Return to Treasury			1,200.00
			<hr/>
			\$ 1,227.20

CELEBRATION—ARMISTICE DAY

Appropriation	\$	241.50	
		<hr/>	\$ 241.50

Expended

Other Expenses:			
For Transfers	\$	241.50	
		<hr/>	\$ 241.50

JULY FOURTH

Appropriation	\$	1,050.00	
		<hr/>	\$ 1,050.50

Expended

Other Expenses:			
For Fireworks	\$	1,000.00	
Music		10.00	
All Other		28.34	
		<hr/>	\$ 1,038.34
Returned to Treasury			11.66
			<hr/>
			\$ 1,050.00

VETERAN FIREMEN'S ASSOCIATION

Appropriation	\$	100.00	
		<hr/>	\$ 100.00

Expended

Other Expenses:			
For Flowers, Decorations	\$	100.00	
		<hr/>	\$ 100.00

MEMORIAL DAY—W.W.V.

Appropriation	\$	1,000.00	
		<hr/>	\$ 1,000.00

Expended

Other Expenses:

For Collations	\$	192.00	
Hire Horses, Carriages		24.00	
Music		356.25	
Standards, Flags, Decorations		48.00	
All Other Expenses		306.92	
		<hr/>	\$ 927.17
Returned to Treasury			72.83
			<hr/>
	\$		1,000.00

REVENUE—Libraries

Balance from 1921	\$ 393.52	
Appropriation	30,251.65	
	<hr/>	\$ 30,645.17

Expended

Salaries and Wages:

To Frederick A. Chase, Librarian	\$ 2,850.00
All Other Service	17,109.91

Other Expenses:

For Binding Book Periodicals	2,059.03	
Books	4,627.54	
Lighting	819.00	
Magazines and Newspapers	1,053.90	
Office Supplies and Printing	709.34	
Sub-Libraries	788.55	
Various Other Supplies	404.34	
All Other Expenses	233.56	
	<hr/>	\$ 30,645.17

REVENUE—Public Service Enterprises**WATER DEPARTMENT**

Cash Receipts	\$ 4,480.18	
Transfers	392,392.88	
Appropriations	17,640.00	
		<hr/> \$ 414,513.06

Expended

Salaries and Wages:

To Various Persons	\$ 176,185.47
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Other Expenses:

For Auto Repairs, Supplies	14,543.54
Damages	70.00
Debit Balance	100,952.32
Equipment and Hardware	17,360.46
Extension Mains and Dept. Equipment	4,492.12
Fuel	49,114.65
Hay, Grain, Straw	796.01
Insurance	4,592.93
Lighting	113.57
Lumber	217.81
Meters and Fittings	10,626.65
Office Supplies and Printing	1,852.61
Oil, Waste, Packing, etc.	3,366.04
Pensions	365.00
Pipe and Fittings	7,906.31
Refunds	769.53
Telephone	352.75
Transfers	563.91
Transportation	2,682.28
Vacancy List	48.92
Various Other Supplies	1,249.86
Water Works Debt Payments	59,000.00
Water Works Interest	15,410.00
All Other Expenses	767.37

	<hr/> \$ 473,400.11
Debit Balance to 1922	58,887.05

\$ 414,513.06

REVENUE—Cemeteries**CEMETERIES**

Balance from 1920	\$ 21,450.50	
Receipts	19,636.41	
	<hr/>	\$ 41,086.91

Expended

Salaries and Wages:

To Thomas Duckworth, Supt. Edson Cemetery	\$ 2,000.00
Other Salaries and Labor	16,414.23

Other Expenses:

For Automobile, Supplies, Repairs	2,885.07
Hay, Grain, Straw, etc.	198.36
Hardware, Equipment, etc.	957.46
Office Supplies and Printing	80.85
Plants, etc.	723.89
Transfers	404.74
Various Other Supplies	415.43
Water	84.25
All Other Expenses	330.78

	<hr/>	\$ 24,495.06
Balance to 1922		\$ 16,591.85
	<hr/>	\$ 41,086.91

REVENUE—Debt Interest, Sinking Funds**INTEREST**

Balance from 1920	\$ 409.53	
Appropriation	428,300.00	
	<hr/>	\$ 428,709.53

Expended

For Interest	\$ 341,540.02	
Transfer, 1920	409.53	
	<hr/>	\$ 341,949.55
Return to Treasury		86,759.98
		<hr/>
		\$ 428,709.53

CITY DEBT

Appropriation	\$ 410,550.00	
	<hr/>	\$ 410,550.00

Expended

To Various Financial Institutions and Individuals	\$ 410,550.00	
	<hr/>	\$ 410,550.00

SINKING FUNDS

Appropriation from Revenue	\$ 21,000.00	
	<hr/>	\$ 21,000.00

Expended

To the Commissioners of Sinking Funds	\$ 21,000.00	
	<hr/>	\$ 21,000.00

**PAYMENT AND RETIREMENT NEW HIGH SCHOOL
LOAN**

Appropriation	\$ 150,000.00	
	<hr/>	\$ 150,000.00

Expended

Payment and Retirement of New High School Bonds	\$ 150,000.00	
	<hr/>	\$ 150,000.00

REVENUE—Taxes**STATE PORTION POLL TAX**

Balance from 1920	\$ 5,271.00	
Appropriation	85,488.00	
	<hr/>	\$ 90,759.00

Expended

To Commonwealth of Massachusetts	\$ 85,776.00	
	<hr/>	\$ 85,776.00
Returned to Treasury		4,983.00
		<hr/>
		\$ 90,759.00

CORPORATION TAX

Appropriation	\$ 28.44	
	<hr/>	\$ 28.44

Expended

To Commonwealth of Massachusetts	\$ 26.96	
Debit Balance from 1920	1.48	
	<hr/>	\$ 28.44

LIQUOR LICENSES

Appropriation	\$ 5.50	
	<hr/>	\$ 5.50

Expended

To Commonwealth of Massachusetts	\$ 5.50	
	<hr/>	\$ 5.50

STATE TAX

Appropriation	\$ 298,480.00	
	<hr/>	\$ 298,480.00

Expended

To Commonwealth of Massachusetts	\$ 298,480.00	
	<hr/>	\$ 298,480.00

STATE HIGHWAY TAX

Appropriation	\$ 2,654.00	
	<hr/>	\$ 2,654.00

Expended

To Commonwealth of Massachusetts	\$ 2,654.00	
	<hr/>	\$ 2,654.00

GRADE CROSSINGS

Appropriation	\$ 2,160.00	
	<hr/>	\$ 2,160.00

Expended

To Commonwealth of Massachusetts	\$ 2,160.00	
	<hr/>	\$ 2,160.00

COUNTY TAX

Appropriation	\$159,133.66	
	<hr/>	\$159,133.66

Expended

To Commonwealth of Massachusetts	\$159,133.66	
	<hr/>	\$159,133.66

NON-RESIDENT BANK TAX

Balance from 1920	\$ 13.06	
Appropriation	15,190.69	
	<hr/>	\$ 15,203.75

Expended

To Commonwealth of Massachusetts	\$ 15,203.75	
	<hr/>	\$ 15,203.75

SPECIAL TAX—ARMY AND NAVY MEN

Appropriation	\$ 14,071.20	
	<hr/>	\$ 14,071.20

Expended

To Commonwealth of Massachusetts	\$ 14,071.20	
	<hr/>	\$ 14,071.20

BAY STATE STREET RAILWAY

Appropriation	\$ 4,661.32	
	<hr/>	\$ 4,661.32

Expended

To Commonwealth of Massachusetts	\$ 4,661.32	
	<hr/>	\$ 4,661.32

SOLDIERS' EXEMPTION

Appropriation	\$ 334.56	
	<hr/>	\$ 334.56

Expended

To Commonwealth of Massachusetts	\$ 334.56	
	<hr/>	\$ 334.56

REVENUE—Unclassified**CLAIMS**

Balance from 1920	\$	597.26	
Appropriation		4,375.56	
		<hr/>	\$ 4,972.82

Expended

Other Expenses:			
For Damages	\$	1,439.42	
Injuries		375.00	
Services		1,038.95	
Street Watering and Tax Refunds		1,515.26	
Transfer, 1920		190.30	
All Other Expenses		413.89	
		<hr/>	\$ 4,972.82

REVISION OF ORDINANCES

Balance from 1920	\$	495.50	
		<hr/>	\$ 495.50
Returned to Treasury	\$	495.50	
		<hr/>	\$ 495.50

AUDITING BOOKS

Balance from 1920	\$	22.50	
Appropriation		800.00	
		<hr/>	\$ 822.50

Expended

Other Expenses:			
For Auditing	\$	800.00	
Returned to Treasury	\$	22.50	
		<hr/>	\$ 822.00

WORKMEN'S COMPENSATION

Balance from 1920	\$ 485.43	
Appropriation	7,694.00	
	<hr/>	\$ 8,179.43

Expended

Other Expenses :		
To Various Persons (Compensation)	\$ 6,642.43	
First Aid Medical Treatment	899.55	
Transfer, 1920	485.43	
All Other Expenses	33.00	
	<hr/>	\$ 8,060.41
Returned to Treasury		119.02
		<hr/>
		\$ 8,179.43

GENERAL EXPENSES

Balance from 1920	\$ 1,700.40	
Appropriation	9,905.46	
	<hr/>	\$ 11,605.86

Expended

Other Expenses :		
For Advertising	\$ 136.44	
Auto Supplies, Repairs	40.00	
Preparation of Bonds	3,923.80	
Printing, Binding	4,314.91	
Services	787.42	
Transfer, 1920	1,255.96	
All Other Expenses	787.71	
	<hr/>	\$ 11,246.24
Returned to Treasury		359.62
		<hr/>
		\$ 11,605.86

LOWELL CHARTER COMMISSION

Balance from 1920	\$	823.61	
		<hr/>	\$ 823.61
Other Expenses:			
For Office Supplies, Printing	\$	464.84	
Services		258.10	
Transfers		6.00	
		<hr/>	\$ 728.94
Returned to Treasury			94.67
			<hr/>
			\$ 823.61

NON REVENUE—Protection Persons and Property**PURCHASING LAND IN HIGHLANDS AND
CONSTRUCTING FIRE HOUSE THEREON**

Appropriation	\$ 30,000.00	
		<u>\$ 30,000.00</u>

Expended

Other Expenses:

For Architects' Services	\$ 426.50	
Contracts	14,249.60	
Electrical Supplies	1,380.65	
Fire Apparatus	10,000.00	
All Other Expenses	137.16	
		<u>\$ 26,193.91</u>
Balance to 1922		3,806.09
		<u>\$ 30,000.00</u>

NON REVENUE—Health and Sanitation**SEWER CONSTRUCTION**

Balance from 1920	\$ 361.19	
Appropriation	135,000.00	
	<hr/>	\$135,361.19

Expended**Wages:**

To Labor	\$110,074.35
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Other Expenses:

For Brick and Cement	3,296.19	
Castings	3,152.51	
Fuel	3,002.78	
Hardware, Equipment	3,049.26	
Lumber	517.00	
Pipe and Fittings	5,242.83	
Transfers	3,183.75	
All Other Expenses	936.50	
	<hr/>	\$132,455.17

Balance to 1922	2,906.02	
	<hr/>	\$135,361.19

ISOLATION HOSPITAL—EQUIPMENT AND FURNISHINGS

Balance from 1920	\$ 537.79	
Credit Transfer	1,801.64	
	<hr/>	\$ 2,339.43

Expended**Other Expenses:**

For Furniture and Furnishings	\$ 577.42	
Hardware and Equipment	1,309.39	
All Other Expenses	402.90	
	<hr/>	\$ 2,289.71

Balance to 1922	49.72	
	<hr/>	\$ 2,339.43

PUBLIC BATH AND COMFORT STATION

Balance from 1920	\$ 125.60	
	<hr/>	\$ 125.60

Expended

Other Expenses:		
For Contracts	\$ 45.20	
	<hr/>	\$ 45.20
Balance to 1922		80.40
		<hr/>
		\$ 125.60

NON REVENUE—Highways and Bridges**PAVING**

Balance from 1920	\$ 2,105.82	
Appropriation	105,028.50	
		<hr/> \$107,134.32

Expended

Wages:		
To Labor	\$44,705.42	
Other Expenses:		
For Brick, Cement, Sand	15,196.18	
Crushed Stone	298.88	
Paving Blocks	38,437.77	
Teaming	3,255.75	
Transfers	1,460.08	
Transportation	2,244.65	
All Other Expenses	1,225.82	
		<hr/> \$ 106,825.55
Balance to 1922		308.77
		<hr/> \$107,134.32

MACADAMIZING

Balance from 1920	\$ 32.91	
Appropriation	90,000.00	
		<hr/> \$90,032.91

Expended

Wages:		
To Labor	\$ 69,058.06	
Other Expenses:		
Equipment and Repairs	1,228.11	
Fuels	3,606.84	
Oil, Tar, Tarite	10,858.85	
Stone	4,080.12	
Transfers	437.60	
All Other Expenses	532.91	
		<hr/> \$ 89,802.49
Balance to 1922		230.42
		<hr/> \$ 90,032.91

NEW SIDEWALKS

Balance from 1920	\$ 7.42	
Appropriation	20,000.00	
	<hr/>	\$ 20,007.42

Expended

Wages:		
To Labor	\$ 4,943.00	
Other Expenses:		
For Concrete	4,750.84	
Edgestone	2,996.81	
Granolithic Work	5,009.86	
Transfers	363.83	
All Other Expenses	323.13	
	<hr/>	\$ 18,387.47
Balance to 1922		1,619.95
		<hr/>
		\$ 20,007.42

BRIDGE CONSTRUCTION

Balance from 1920	\$ 15,725.18	
Appropriation	100,000.00	
	<hr/>	\$ 115,725.18

Expended

Wages:		
To Labor	\$ 10,680.07	
Other Expenses:		
For Contracts	72,186.63	
Equipment and Repairs	11,424.83	
Lumber	4,824.80	
Transfers	1,370.32	
All Other Expenses	3,658.07	
	<hr/>	\$ 107,144.72
Balance to 1922		11,580.46
		<hr/>
		\$ 115,725.18

CONSTRUCTION AND EXTENSION OF FIRST STREET

Balance from 1920	\$ 12,004.05	
	<hr/>	\$ 12,004.05
Balance to 1922	\$ 12,004.05	
	<hr/>	\$ 12,004.05

WIDENING LOCKE STREET

Balance from 1920	\$ 6,185.25	
	<hr/>	\$ 6,185.25

Expended

Wages:

To Labor	\$ 2,873.16
----------------	-------------

Other Expenses:

For Land and Buildings	2,375.00
Transfers	17.44
All Other	20.95

	<hr/>	\$ 5,286.55
Balance to 1922		898.70
	<hr/>	\$ 6,185.25

NON REVENUE—Education**ACQUIRING LAND, CONSTRUCTING NEW HIGH SCHOOL**

Balance from 1920	\$1,322,039.86	
Appropriation	410.92	
		<hr/> \$1,322,450.78

Expended

Salary:		
To Nelson D. Keables	\$	3,120.00
Other Expenses:		
For Advertising		13.44
Architectural Services		23,750.00
Contracts		667,232.19
Settlements to Property Owners		11,241.62
Various Other Supplies.		208.13
All Other Expenses		1,092.50
		<hr/> \$706,657.88
Balance to 1922		615,792.90
		<hr/> \$1,322,450.78

ACQUIRING LAND AND CONSTRUCTING SCHOOLS

Balance from 1920	\$	22,319.40	
Appropriation		95,863.20	
		<hr/>	\$ 118,182.60

Expended

Wages:			
To Labor	\$	9,520.08	
Other Expenses:			
For Architectural Services		5,012.26	
Contracts		76,176.02	
Equipment		13,366.24	
Transfers		575.43	
Various Other Supplies		268.58	
All Other Expenses		1,174.08	
		<hr/>	\$ 106,092.69
Balance to 1922			12,089.91
			<hr/> \$ 118,182.60

**ACQUIRING LAND AND CONSTRUCTING SCHOOL
HOUSES, YEAR 1920**

Balance from 1920	\$	1,305.83	
		<hr/>	\$ 1,305.83

Expended

Other Expenses:

For Advertising	\$	7.47	
Contracts		745.00	
Equipment		547.59	
		<hr/>	\$ 1,300.06
Balance to 1922			5.77
			<hr/>
			\$ 1,305.83

NON REVENUE—Recreation**ACQUIRING LAND FOR PUBLIC PLAYGROUND**

Appropriation	\$ 32,000.00	
	<hr/>	\$ 32,000.00

Expended

Other Expenses:

For Land	\$ 30,800.00	
Services	103.67	
	<hr/>	\$ 30,903.67
Balance to 1922		1,096.33
		<hr/>
		\$ 32,000.00

NON REVENUE—Water Works

EXTENSION MAINS AND DEPARTMENTAL EQUIPMENT

Balance from 1920	\$ 16,782.31	
Appropriation	30,000.00	
	<hr/>	\$ 46,782.31

Expended

Wages:		
To Labor	\$ 16,886.77	
Other Expenses:		
For Hardware, Equipment	16,382.69	
Pipe, Valves, etc.	7,846.43	
Sand, Gravel, Cement	786.24	
Transfers	4,480.18	
All Other Expenses	400.00	
	<hr/>	\$ 46,782.31

ACQUIRING LAND AND PROTECTING WATER SUPPLY

Balance from 1920	\$ 3,463.51	
	<hr/>	\$ 3,463.51
Balance to 1922	\$ 3,463.51	
	<hr/>	\$ 3,463.51

NON-REVENUE—Unclassified**MUNICIPAL PURPOSES**

Balance from 1920	\$ 1,625.02	
Appropriation	176.62	
	<hr/>	\$ 1,801.64

Expended

Other Expenses:		
For Transfer 1920	\$ 1,801.64	
	<hr/>	\$ 1,801.64

LOWELL MEMORIAL AUDITORIUM

Balance from 1920	\$611,119.66	
Cash Receipts	3.87	
	<hr/>	\$611,123.53

Expended

Other Expenses:		
For Contracts	\$435,091.81	
Insurance	1,500.00	
All Other Expenses	2.00	
	<hr/>	\$436,593.81
Balance to 1922	174,529.72	
	<hr/>	\$611,123.53

FUNDS

SINKING
HAPGOOD WRIGHT
JOHN DAVIS
CEMETERY

FUNDS, DECEMBER 31, 1921

New School Houses due July, 1926—\$200,000.00

Value January 1, 1921	\$178,334.12
Value December 31, 1921	198,324.48
	<hr/>
Increase during year 1921	19,990.36

Hapgood Wright Centennial Fund due 1926.

Amount of Fund Jan. 1, 1921	\$ 13,255.67
Increase to December 31, 1921	629.54
	<hr/>
Total December 31, 1921	\$ 13,885.21

Cemetery

Cemetery Perpetual Care Fund:

On hand January 1, 1921	\$151,719.48
On hand December 31, 1921	169,927.70
	<hr/>
Increase during year 1921	\$ 18,208.22
Deposited in banks	152,215.00
Interest undrawn in banks	17,712.70
	<hr/>
Total amount of fund Dec. 31, 1921	\$169,927.70

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS FOR THE YEAR 1921

Lowell, Mass., Jan. 1, 1922

To the City Council of Lowell:

Gentlemen:—The Commissioners of the Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City and of the Hapgood Wright Centennial Trust Fund for the year 1921:

Value of Lowell High School Sinking Fund	
Jan. 1, 1922	\$. 0.00
Value of Lowell High School Sinking Fund	
Jan. 1, 1921	\$173,077.46
	<hr/>
Decrease during the year	\$173,077.46
Value of New School Houses Sinking Fund	
Jan. 1, 1922	\$198,324.48
Value of New School Houses Sinking Fund	
Jan. 1, 1921	\$178,334.12
	<hr/>
Increase during the year	\$ 19,990.36
Total decrease in Sinking Funds during the year	\$153,087.10
Value of the Hapgood Wright Centennial Trust	
Fund Jan. 1, 1922	\$ 13,885.21
Value of the Hapgood Wright Centennial Trust	
Fund Jan. 1, 1921	\$ 13,255.67
	<hr/>
Increase during the year	\$ 629.54

LOWELL HIGH SCHOOL SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1921	\$171,000.00	\$ 2,077.46	\$173,077.46

RECEIVED DURING 1921:

CASH—Annual Appropriation		3,000.00	
Special Appropriation		14,000.00	
Income on Investments		3,669.45	
Income on Bank Deposits		58.40	
Securities, sold or matured ..		127,194.69	

SECURITIES—Bought during 1921	0.00		
	<hr/>	<hr/>	
	\$171,000.00	150,000.00	

PAID DURING 1921:

SECURITIES—Matured or sold...	171,000.00		
CASH—For Securities purchased ..		0.00	
	<hr/>	<hr/>	
On hand	0.00	150,000.00	

Paid to the City of Lowell to pay and retire Lowell High School Loan of April 1, 1891		150,000.00	
On hand December 31, 1921	0.00	0.00	0.00
	<hr/>	<hr/>	<hr/>
Decrease during 1921			\$173,077.46

NEW SCHOOL HOUSES SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1921	\$169,000.00	\$ 9,334.12	\$178,334.12
RECEIVED DURING 1921:			
CASH—Annual Appropriation		4,000.00	
Income on Investments		7,534.58	
Income on Bank Deposits		333.45	
Securities, Sold or Matured..		21,006.25	
SECURITIES—Bought during 1921	58,000.00		
	<hr/> \$227,000.00	<hr/> \$ 42,208.40	
PAID DURING 1921:			
SECURITIES—Sold or Matured ..	31,000.00		
CASH—For Securities purchased ..		39,883.92	
	<hr/> \$196,000.00	<hr/> \$ 2,324.48	\$198,324.48
On hand December 31, 1921			
Increase during 1921			<hr/> \$ 19,990.36

SECURITIES BELONGING TO THIS FUND

Coupon Bonds

	Rate	Value	Maturity
75 N. Y. N. H. & H. R. R.	4%	\$ 75,000.00	July 1955
9 Boston & Maine R. R.....	4	9,000.00	Aug. 1942
2 St. Johns. & L. Champl. R. R..	5	2,000.00	Mch. 1944
15 Boston & Maine R. R.....	4	15,000.00	Sept. 1926
1 U. S. Govt. Liberty 3d	4 $\frac{1}{4}$	5,000.00	Sept. 1928
2 Boston & Lowell R. R.	4	2,000.00	Ap'l. 1932
25 Worcester Con. R. R.	5	25,000.00	Nov. 1927
10 Boston Elevated R. R.	4	10,000.00	May 1935
15 Boston & Maine R. R.	6	15,000.00	June 1930
28 Lynn & Boston R. R.	5	28,000.00	Dec. 1924
1 Boston & Maine R. R. Reg.	4 $\frac{1}{2}$	10,000.00	Jan. 1944
		<hr/> \$196,000.00	
Cash on deposit in Appleton National Bank		2,324.48	
		<hr/> \$198,324.48	

HAPGOOD WRIGHT CENTENNIAL TRUST FUND

	Securities	Cash	Total
On hand Jan. 1, 1921	\$12,150.00	\$ 1,105.67	\$13,255.67
RECEIVED DURING 1921:			
CASH—Income on Investments		577.14	
Income on cash in Savings Bank		52.40	
		<hr/>	
On hand December 31, 1921	12,150.00	1,735.21	13,885.21
	<hr/>	<hr/>	
Increase during 1921			\$ 629.54

SECURITIES BELONGING TO THIS FUND

7 U. S. Govt. Victory Loan coupon bonds $4\frac{3}{4}$	\$ 4,650.00	May 1923
9 U. S. Govt. Victory Loan registered bonds $4\frac{3}{4}$	7,500.00	May 1923
	<hr/>	
	\$12,150.00	
Cash in Lowell Institution for Savings	\$ 1,735.21	
	<hr/>	
	\$13,885.21	
Principal sum in Fund	\$ 7,343.79	
Accrued Interest	6,541.42	
	<hr/>	
	\$13,885.21	

Respectfully submitted,
Sinking Fund Commissioners,

By FRED H. ROURKE,
Secretary-Treasurer Sinking Fund Commission

STATEMENT OF THE CITY TREASURER RELATING TO SPECIAL FUNDS FOR CARE OF PUBLIC BURIAL GROUNDS

Lowell, Mass., Jan. 1, 1922.

To the City Council:

Gentlemen:—I have the honor to submit the following statement of Special Funds in my hands, deposited for perpetual care of lots in the Public Burial Grounds of the City of Lowell.

On hand January 1, 1921 \$141,065.00

Received during the year from—

Mrs. Jessie Kydd Miller	\$100.00
Hugh J. Fitzpatrick	25.00
Korker Arakelian	25.00
Hiram E. Hartford	100.00
John J. Harvey Adm., John F. Noyes, Est.	100.00
Robert A. Currull	100.00
Mary J. Hemenway	100.00
Harriet Webster & Susie Bancroft	100.00
George C. Hanaford	100.00
Curtis McEwan	100.00
Helen Waugh	100.00
Thomas Welsh	100.00
Margaret Montgomery	100.00
Etta M. Smith	100.00
John J. Hogan	100.00
Mrs. Fannie Drewett	100.00
Etta M. Qimby	100.00
Bernard Nelson	100.00
Henry O. Robinson	100.00
Nettie A. Cambridge	100.00
Alfred P. Sawyer, Exr., Elizabeth A. Green	200.00
Agnes C. Andrews	100.00
Clarence W. Fletcher	100.00
Charles H. McIntire, Exr., H. B. Hill Est.	200.00
Isabelle Jones	100.00

Hayward R. Pressey	100.00
Elizabeth A. Early	50.00
Horace H. Bennett	100.00
William M. T. Flanders	100.00
Geo. W. Healey (John Barlow Est.)	25.00
Charles W. Holmes	100.00
John W. Moore, Admr.	100.00
Philip Ludan & Edward Knutson	100.00
Theophilus H. Colwell	100.00
Thomas Duckworth (Ella May Ross)	50.00
Newell F. Putnam	100.00
Mary H. Urquhart	100.00
Thomas Duckworth, (W. B. F. McKissock)	100.00
William E. Stetson	100.00
Mrs. Frank B. Akers	100.00
Henrietta M. Green	100.00
Theodore W. Pearson	100.00
Ethel E. Kimball	100.00
Mrs. Walter L. Parker	100.00
William H. Saunders (Elsie Chase)	150.00
William H. Saunders (Martha A. Thorne)	100.00
Pauline Russell	100.00
Helen F. Emerson	100.00
Frank R. Brady	100.00
Mrs. Carrie Curtis	100.00
Walter H. Sullivan	200.00
James W. Mozley	100.00
Charles W. Forbes, Admr.	100.00
Mrs. William H. Estabrook	100.00
Edith L. Fletcher	100.00
Percival P. Burbank	100.00
Margaret C. Sweetsir, Admx.	100.00
Elkanah Nelson & Agnes Kennedy	100.00
Agnes Girdwood	100.00
Mrs. Amy Bowers	100.00
George L. Dexter	100.00
George L. Dexter	100.00
Lewis N. Morse	100.00
W. H. P. Smith	100.00
Abbie J. Dow	100.00
Eugenia L. Coburn	100.00
Carrie Ruggles Buker	200.00
Thomas Duckworth (Thos. Doran)	25.00
Mrs. Sadie Smith	25.00
Thomas Duckworth (E. W. Chippendale)	50.00

Elizabeth Woodward	100.00
Ellen A. Morse	100.00
Ellen A. Morse	100.00
Thomas Duckworth (Mrs. M. A. Bell)	50.00
Lillian F. Holman	100.00
Walter H. Dorr	100.00
W. H. Emmott, Admr.	100.00
Harry L. Shedd	100.00
Mary F. Gannon	100.00
Jennie A. Trull	100.00
Charles B. Frederic	50.00
Arthur G. Wright	100.00
Bertha B., Greta M. & Esther L. Douglass	100.00
Olof A. Bernston, Admr.	100.00
Thomas Duckworth (J. M. Williams)	50.00
Wm. H. Saunders (Emily Bingley)	25.00
Mrs. Mary Ellen Cowell	100.00
Araminta V. Paasche	100.00
Amadee Archambault (M. Lashua)	25.00
George W. Willis	200.00
Ellen M. McField	100.00
Mrs. John Thorne	100.00
Hiram L. Kennedy	100.00
Lavina Wilcox, Book.	100.00
Albert E. Brooks	50.00
Walter R. Janson	100.00
A. Archambault (Nellie L. Duren)	25.00
William T. Sheppard, Atty.	100.00
Mrs. John H. Linnekin	100.00
Mrs. William W. Clark	100.00
George L. Dexter	100.00
Thomas Duckworth (J. W. Sutcliffe)	100.00
Janet Nelson	100.00
W. H. Blake (Clara B. Adams Est.)	25.00
Oscar & Henrietta Whitcomb	100.00
Rev. Appleton Grannis, Exr.	100.00
Mary J. Jamieson	100.00
Thomas Duckworth (David W. Saunders)	100.00
Mrs. Elizabeth Morton	100.00
George Jones Est.	25.00
Bessie C. Barnes	100.00
Thomas Duckworth (Edwin Stubbs)	50.00
Thomas Duckworth (Mary Leaver)	50.00
Thomas Duckworth (Wallace R. Bickford)	100.00
Elizabeth Eber	100.00

AUDITOR'S REPORT

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Allen E. Shannon	100.00	
George Page	100.00	
Annie S. Allister	100.00	
		<hr/>
		\$ 11,150.00

On hand December 31, 1921	\$152,215.00
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The above amount is invested as follows:

Lowell Five Cents Savings Bank	\$ 17,125.00	
Central Savings Bank	16,700.00	
Merrimack River Savings Bank	17,050.00	
Mechanics' Savings Bank	16,100.00	
City Institution for Savings	23,625.00	
Lowell Institution for Savings	16,425.00	
Washington Savings Institution	16,775.00	
Middlesex Safe Deposit & Trust Co.	24,865.00	
Old Lowell National Bank (Svgs. Dept.)	3,550.00	
		<hr/>
		\$152,215.00

Respectfully submitted,

FRED H. ROURKE,
City Treasurer.

ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES FOR THE YEAR 1921

Lowell, Mass., Jan. 1, 1922.

To the City Council:

Gentlemen:—I have the honor to submit the following report of the Receipts and Expenditures of the City of Lowell for the financial year 1921:

Monthly Receipts as Follows:

January	\$ 679,314.10	
February	298,378.37	
March	172,327.64	
April	1,059,721.40	
May	623,341.56	
June	1,035,437.41	
July	946,537.60	
August	296,528.64	
September	322,113.47	
October	2,926,162.20	
November	1,376,419.39	
December	1,025,387.43	
		\$10,761,669.21
Cash balance, January 1, 1921		809,259.32
		\$11,570,928.53

Monthly Payments as Follows:

January	\$ 499,847.26	
February	490,336.63	
March	656,896.55	
April	591,251.58	
May	436,518.46	
June	1,148,912.11	
July	825,185.45	
August	712,861.47	
September	576,274.02	
October	1,174,786.04	
November	2,068,179.48	
December	1,499,905.17	
		\$10,630,954.22
Cash balance, December 31, 1921		939,974.31
		\$11,570,928.53

Respectfully submitted,

FRED H. ROURKE,
City Treasurer & Collector of Taxes.

GENERAL INFORMATION

PROPERTY OWNED BY CITY

TABLES

LOANS

NEW HIGH SCHOOL

AUDITORIUM

TOTAL VALUATION AND CITY DEBT, 1921**Real Estate and Personal Property Owned by the City**

	Personal Valuation	Real Estate Valuation	Total City Valuation
Commissioner of Public Safety	\$ 116,144.00	\$ 524,400.00	\$ 640,544.00
Commissioner of Finance	12,155.00		12,155.00
Commissioner of Public Property and Licenses	85,510.00	2,509,375.00	2,594,885.00
Commissioner of Streets and High- ways	116,031.00		116,031.00
Commissioner of Water Works and Fire Protection	1,735,924.09	1,126,100.00	2,862,024.09
School Department	54,300.00	3,792,305.00	3,846,605.00
Miscellaneous	33,962.73	10,525.00	44,487.73
Total Valuation	\$2,154,026.82	\$7,962,705.00	\$10,116,731.82
Gross City Debt			7,202,135.00

Excess in valuation of all city property over gross debt of

City of Lowell \$2,914,596.82

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF PUBLIC SAFETY

Mayor :

Furniture in office, etc.	\$	800.00
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Health :

Furniture, etc., in office		177.00
Bacteriological Laboratory		148.00
Milk and Vinegar Office		860.00
Horses		7,000.00
Wagons and Sleds		6,000.00
Harnesses		1,000.00
Shop		1,500.00

Law :

Furniture in office, etc.		500.00
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Police :

Furniture, etc., in office		2,453.00
Equipment		1,375.00
Stable		7,331.00
Electrician's Department		24,800.00

State Aid :

Furniture, etc., in office		200.00
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Charity :

Outdoor Relief		4,000.00
Hospital		27,000.00

\$85,144.00

CHARITY DEPARTMENT

Real Estate

	Buildings Value	Area		Land Value	Total Value
Chelmsford St. Hospital Buildings	\$211,300.00	45.73	acres	\$22,300.00	\$233,600.00
Isolation Hospital	270,000.00	59.39	acres	3,000.00	273,000.00
Land Chelmsford St.		139,530	sq. ft.	2,800.00	2,800.00
Land Chelmsford St.		176,300	sq. ft.	3,500.00	3,500.00
Land Chelmsford St.		10.30	acres	3,100.00	3,100.00
Land in Town of Chelmsford		28.08	acres	8,400.00	8,400.00
	<u>\$481,300.00</u>			<u>\$43,100.00</u>	<u>\$524,400.00</u>

Personal Property

Outdoor Relief	\$ 4,000.00
Hospital	27,000.00
	<u>\$31,000.00</u>

**PERSONAL PROPERTY IN CHARGE OF COMMISSIONER
OF FINANCE**

Auditor—Furniture in office, etc	\$ 1,305.00
Assessors—Furniture in office, etc.	1,100.00
Treasurer—Furniture in office, etc.	1,000.00
City Clerk—Furniture in office, etc.	550.00
Elections—Furniture in office, etc.	7,500.00
Registrars—Furniture in office, etc.	85.00
Supply—Furniture in office, etc.	575.00
	<hr/>
	\$12,115.00
	<hr/>

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF PUBLIC PROPERTY AND LICENSES

Building:

Shop and Storehouses	\$ 10,500.00
Machinery, tools, etc.	1,270.00
Hardware	140.00
Lumber	500.00
School furnishings	2,000.00
Election property	4,150.00
Coffins, stock and tools	250.00
Stable property	3,180.00
Masons' stock and tools	60.00
Pipers' stock	315.00
Painters' stock and tools and unclassified	1,100.00
Office property	1,000.00
Cemetery	16,000.00
License Commissioners	850.00

Park:

Furniture, etc., in office, stable and yard	8,200.00
Smoke Inspector	70.00
Moths	1,800.00

Messenger:

Furniture in charge	1,300.00
Boiler room	3,100.00
Weigher	275.00
Sealer	900.00
Wires	400.00

Schools:

Furniture, etc., in office	1,150.00
Horses, etc.	1,000.00
Equipment, High School	10,000.00
Equipment, Industrial School	16,000.00

\$ 85,510.00

PUBLIC PROPERTY AND LICENSES DEPARTMENT

Real Estate

	Value Bldg.	Area	Land Value	Total Value
City Hall	\$492,000.00			
Memorial Building, Merrimack St., Colburn St., Moody St. and Worthen St.....	240,000.00	61,280	\$245,100.00	\$977,100.00
Police Station, Market St.....	49,700.00			
City Scales	600.00			
Public Landing and Police Stable.....	3,000.00	16,345	73,550.00	133,600.00
Land in rear Market St.....		4,337	3,450.00	
Land in rear Market St.....		4,382	3,300.00	
Wooden Building (polling booth).....	350.00			
Wooden Building (Old Fire Station).....	850.00			
Land, Fletcher, Willie and Cross Sts.....		5,150	2,050.00	3,250.00
Comfort Station, Paige St.....	30,000.00	area in street		30,000.00
Carriage Sheds	4,800.00			
2½ Story Brick Building, Office, Carpenter and Blacksmith Shop	9,600.00			
Sprinkler Sheds	6,000.00			
City Stables (brick)	48,000.00			
Land, Fletcher, Broadway and Lagrange Sts.		72,500	25,400.00	93,800.00
Brick Stable	42,000.00			
Carriage Shed (brick and wood).....	3,600.00			
Shed (wood)	3,000.00			
2 Story Building (Sewer Dept.) wood.....	3,000.00			
Land, Fletcher, Cross and Broadway.....		80,980	28,350.00	119,200.00
Shed	600.00			

PUBLIC PROPERTY AND LICENSES DEPARTMENT, Real Estate—Continued

	Value Bldg.	Area	Land Value	Total Value
Carpenter and 3 Story Brick Building	21,600.00			
2 Story Wooden Building, Carpenter Storage	7,200.00			
Auto and Carriage Sheds, brick and wood	9,600.00			
Sheds	250.00			
Rifle Range, Dracut	19,200.00		270.00	21,900.00
Magazine Building, rear of Chelmsford St. .		1.65 sq. ft.	400.00	400.00
Memorial-Auditorium	350,000.00	(1921 unf.) 98,783 "	74,100.00	424,100.00
	\$1,344,950.00		\$458,400.00	\$1,803,350.00

DEPARTMENT OF PUBLIC PROPERTY, PARK DEPARTMENT Real Estate

	Valuation	Area	Feet	Value Land	Total Value
Bath House	\$ 17,000.00		\$ 261,928	\$ 13,100.00	\$ 30,100.00
Belvidere Park			74,275	29,700.00	29,700.00
Chambers St. Playground			55,239	5,700.00	5,700.00
Fair Grounds Playground			381,367	19,550.00	19,550.00
Colonial Ave. Riverbank			152,400	leased	leased
Coburn Square			10,989	1,000.00	1,000.00
Fort Hill Park		34.40		154,800.00	154,800.00
Glacial Oval			690	100.00	100.00
Harris Oval			5,090	500.00	500.00
Hillside Park			2,669	250.00	250.00
Hovey Square			945	150.00	150.00
Hutchinson Square			1,416	150.00	150.00
Lenox Square (barn)	\$ 850.00		18,195	2,200.00	3,050.00
Lincoln Square			600	150.00	150.00
Lucy Larcom Park			21,970	leased	leased
Mansur Square			1,743	175.00	175.00
Middlesex Square			1,514	200.00	200.00
Monument Square			3,928	23,550.00	23,550.00
Mt. Vernon Park			25,902	4,000.00	4,000.00
North Common		11.39		125,300.00	125,300.00
Parker Spaulding Park			2,215	200.00	200.00
Penniman Square			975	250.00	250.00
Princeton Square			1,210	150.00	150.00
Riverside Street			8,371	1,850.00	1,850.00
Shedd Park				44,800.00	44,800.00
South Common		56.00		227,900.00	240,100.00
{ Band Stand	2,200.00		911,653		
{ Sanitary Station	10,000.00				
Tyler Park			78,919	8,000.00	8,000.00
Water Works Square			2,050	500.00	500.00
Varnum Ave. Riverbank			19,860	leased	leased
Varnum Park			5,882	5,900.00	5,900.00
N. E. cor. Mammoth Rd. and Riverside St.			7,420	2,250.00	2,250.00
S. W. cor. Mammoth Rd. and Varnum Ave.			6,481	1,750.00	1,750.00
	<u>\$ 30,050.00</u>			<u>\$674,125.00</u>	<u>\$704,175.00</u>

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF STREETS AND HIGHWAYS

Streets:	
Store room	\$ 4,070.00
Yard	14,340.00
Shop	2,000.00
Stone	6,780.00
Blacksmith Shop	890.00
Tool House	568.00
Dracut Ledge	14,700.00
Horses & Harnesses	21,788.00
Miscellaneous	2,200.00
Watering Streets:	
Carts, etc.	12,635.00
Sewer:	
Office	725.00
Miscellaneous	19,850.00
Lighting Streets	10,025.00
Engineer:	
Furniture in office, etc.	2,560.00
Tools and materials	2,900.00
	<hr/>
	\$116,031.00

WATER WORKS DEPARTMENT

Real Estate

	Value Bldgs.	Area Right of way	Value Land	Total Value
Terminal Chamber (brick) Conduit St.....	\$ 4,400.00			\$ 4,400.00
2 Small Brick Buildings, manhole and blow-off, Conduit St.	1,100.00	"		1,100.00
Sarah Ave. and Moody St.	1,100.00	sq. ft.	\$ 2,800.00	2,800.00
Brick Manhole Structure, White St.		"	300.00	1,400.00
Brick Manhole Structure, Moody St., Ger-shom and Gardner Aves.....	2,200.00	"	2,600.00	4,800.00
Fels Park		17,252	550.00	550.00
Boulevard and Boulevard St.		27,163	4,400.00	4,400.00
Inlet Chamber (brick) Varnum Ave.	11,000.00	11	1,550.00	12,550.00
Pumping Station, West Sixth St.	110,000.00	15,540		
Stable and Sheds	16,500.00			
Store House and Sheds, West Sixth St., Hampshire St. and Jewett St.	2,200.00	51,101	13,000.00	141,700.00
High Service Reservoir, Mt. Pleasant St....	16,500.00	54,730	1,100.00 }	
In Town of Dracut		32,470	650.00 }	18,250.00
Pumping Station and Chimney, Plain and Chelmsford Sts.	3,300.00	1,684,930	25,250.00 }	
Plain and Chelmsford Sts.		115,640	600.00 }	33,000.00
In Town of Chelmsford		1,531,109	3,850.00 }	
Low Service Reservoir (new)	82,500.00			
Low Service Reservoir	77,000.00			
Dwelling House	1,100.00			
Gate House, Beacon St.	11,000.00			
Lower Pumping Station	27,500.00	651,600	32,600.00	204,200.00

WATER WORKS DEPARTMENT, Real Estate—Continued

	Value Bldgs.	Area	Value Land	Total Value
Wooden Building, Boulevard	550.00	22.71	9,100.00	37,150.00
Filter Basin (brick base and wood super-structure)				
Vacant Land between River and Varnum Ave.	8,800.00	(Balance of land gone to Bath House)		
Vacant land Pawtucket Boulevard		101,882	3,050.00	11,850.00
Purification Plant	125,000.00	55.78	22,300.00	22,300.00
		34.71	13,900.00	138,900.00
	\$501,750.00		\$137,600.00	\$639,350.00

Personal Property

Pumps, Engines, Machinery, Pipes, Conduits, Mains
and other Personal Property\$1,602,276.67

FIRE DEPARTMENT**Personal Property**

Chief's Office	\$ 7,619.32
Repair Shop	579.00
Engine Co. No. 1, Gorham Street	\$ 8,767.13
" No. 2, Branch St.	9,389.00
" No. 3, Palmer Street	7,773.30
" No. 4, High Street	5,172.50
" No. 5, Mammoth Road	2,950.90
" No. 6, Fletcher Street	6,592.60
Hose Co. No. 7, Central Street	2,566.95
" No. 8, Merrimack Street	2,000.85
" No. 9, Lincoln Street	2,539.13
" No. 10, Fourth Street	3,955.30
" No. 11, Lawrence Street	1,966.60
" No. 12, West Sixth Street	2,433.65
Hook and Ladder, No. 1, Lawrence Street.....	2,429.25
" No. 2, Westford Street	3,517.91
" No. 3, Palmer Street	5,169.55
" No. 4, West Sixth Street	6,599.78
Protective No. 1, Warren Street	4,327.70
Fire Alarm Telegraph	47,327.00
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Total Fire Dept. Personal	\$133,647.42

FIRE DEPARTMENT

Real Estate

	Value Bldgs.	Area	Value Land	Total Value
Engine House, Gorham St.	\$ 31,000.00	5,292 feet	\$ 1,600.00	\$ 32,600.00
Engine House, Branch St.	21,600.00	8,829 "	3,500.00	25,100.00
Central Fire Station, Palmer St.	72,000.00	2,248 }	9,000.00 }	
		7,326 }	47,600.00 }	128,600.00
Engine House, High St.	30,000.00	5,565 "	1,950.00	31,950.00
Engine House, Mammoth Road	17,400.00	5,341 "	850.00	18,250.00
Engine House, Fletcher St.	24,000.00	123,126 }	24,600.00 }	
		18,985 }	3,700.00 }	52,300.00
Engine House, Central St.	12,600.00	3,500 "	2,100.00	14,700.00
Engine House, Merrimack St.	27,600.00	3,060 "	11,300.00	38,900.00
Engine House, Lincoln St.	7,200.00	1,930 "	150.00	7,350.00
Engine House, Fourth St.	19,200.00	6,993 "	2,500.00	21,700.00
Engine House, Lawrence St.	30,000.00	8,058 "	1,200.00	31,200.00
Engine House, West Sixth St.	45,600.00	9,390 "	650.00	46,250.00
Engine House, Westford St.	21,600.00	4,610 "	1,400.00	23,000.00
Engine House, Warren St.	13,200.00	1,645 "	1,650.00	14,850.00
	\$373,000.00		\$113,750.00	\$486,750.00

SCHOOL DEPARTMENT

Real Estate

Bldgs. Value	Area	Land Value	Total Value
High School, Kirk and Anne Sts.	103,334 sq. ft.	\$103,350.00	\$1,343,350.00
High School Annex, John and Paige Sts. ...	16,737 "	25,100.00	123,900.00
High School (overflow) Kirk St.	22,816 "	18,000.00	30,000.00
Bartlett School (new) Wannalancit St. ...	68,418 "	10,250.00	185,250.00
Butler School, Gorham St.	43,187 "	9,315.00	87,315.00
Colburn School, Lawrence St.	17,557 "	3,500.00	27,500.00
Edson School, Highland and South Sts. ...	Ld. taken with So. Common		24,000.00
Franklin School, Branch St.	20,011 sq. ft.	14,000.00	32,000.00
Green School, Merrimack St.	19,562 "	83,150.00	155,150.00
Greenhalge School, Ennell St.	100,000 "	15,000.00	165,000.00
Morey School, Pine St.	123,924 "	18,600.00	333,600.00
Lincoln School, Chelmsford St.	48,084 "	4,800.00	124,800.00
Mann School, Broadway (brick)	15,632 "	11,700.00	30,900.00
Wooden Building, Broadway	51,070 "	10,200.00	100,200.00
Moody School (new) Rogers St.	36,160 "	5,800.00	145,800.00
Pawtucket School, Mammoth Road	33,900 "	1,350.00	
Riverside School, Woburn St.	3,550 "	150.00	31,600.00
	11,724 "	100.00	
Varnum School, Myrtle St.	47,625 "	10,950.00	130,950.00
Washington School, Lang St.	72,240 "	2,890.00	110,890.00
Agawam School, Agawam St. (Primary) .	13,184 "	1,600.00	11,200.00
Ames St. Primary	8,559 "	2,500.00	16,900.00
	20,000 "	1,000.00	19,000.00

SCHOOL DEPARTMENT, Real Estate—Continued

	Value Bldgs.	Area sq. ft.	Land Value	Total Value
Central St. Primary	\$12,000.00	9,694	\$2,900.00	\$14,900.00
Cabot St. Primary	24,000.00	9,625	5,300.00	29,300.00
Carter St. Primary	60,000.00	18,908	2,650.00	62,650.00
Charles St. Primary	14,000.00	11,100	4,450.00	18,450.00
Colburn Primary, Charles St.	26,000.00	9,857	3,450.00	29,450.00
Cross St. Primary	26,000.00	8,048	2,000.00	28,000.00
Dover St. Primary	10,000.00	17,927	4,500.00	14,500.00
Favor St. Primary	26,500.00	8,500	5,100.00	31,600.00
Fayette St. Primary	2,400.00	7,428	2,600.00	5,000.00
Grand St. Primary	3,600.00	4,255	1,300.00	4,900.00
High St. Primary	9,600.00	9,220	3,700.00	13,300.00
Howard St. Primary	4,200.00	6,944	1,400.00	5,600.00
Kirk St. Primary	14,400.00	6,120	6,100.00	20,500.00
Lakeview Ave. Primary	9,000.00	10,232	2,000.00	11,000.00
Lexington Ave. Primary	8,400.00	12,000	350.00	8,750.00
London St. Primary	5,000.00	10,065	700.00	5,700.00
Lyon St. Primary	21,600.00	10,730	2,700.00	24,300.00
Mammoth Road Kindergarten	2,400.00	3,507	1,100.00	3,500.00
Middlesex Village Primary	19,000.00	19,120	750.00	19,750.00
Moody Street	21,600.00	30,400	1,200.00	22,800.00
Morrill School, Common Street	25,000.00	9,040	3,150.00	28,150.00
Laura E. Lee School	24,500.00	16,239	2,450.00	26,950.00
Powell St. School	7,800.00	11,367	1,350.00	9,150.00
Pond St. School	8,500.00	9,880	3,950.00	12,450.00
Pine St. School	21,600.00	26,603	3,200.00	24,800.00
Sycamore St. School	14,500.00	19,046	550.00	15,050.00

SCHOOL DEPARTMENT. Real Estate—Continued

	Value Bldgs.	Area	Land Value	Total Value
Tenth St. School	10,500.00	10,730	2,150.00	12,650.00
West London St. Annex Primary	2,500.00	18,903	1,900.00	13,900.00
West Sixth St. Primary	8,500.00	15,211	750.00	3,250.00
Weed St. School	12,000.00	12,913	1,900.00	10,400.00
Worthen St. Primary	24,000.00	11,044	8,300.00	32,300.00
	\$3,355,100.00		\$437,205.00	\$3,792,305.00

SCHOOL DEPARTMENT—Personal Property

Furniture in Schools, etc. \$54,300.00
Determined on factor basis of a certain valuation per room.

MISCELLANEOUS REAL ESTATE

	Area		Bldgs. Value
			\$
Tenth Street in Lowell	40,260	sq. ft.	800.00
Tenth Street in Dracut	175,985	"	3,500.00
Harris Land in Dracut	28	acres	600.00
Parker Land in Dracut	20	"	1,400.00
Hildreth Land in Dracut	17	"	500.00
Meadow Land in Dracut	5	"	275.00
Swan Land in Dracut	5	"	200.00
S. S. Rogers St.	2.69	"	300.00
N. S. First Street	57,768	sq. ft.	1,500.00
W. S. Billerica Road	145,413	"	400.00
Spruce St.	17,457	"	150.00
Clark Road	3	acres	900.00
			<hr/>
			\$ 10,525.00

CEMETERIES DEPARTMENT

Various tools and supplies		\$ 8,027.73
Fencing:		
Edmon Cemetery	\$7,355.00	
Gates	2,500.00	
Westlawn	3,000.00	
Old English	1,000.00	
School Street (stone)	1,500.00	
Pawtucketville	170.00	15,525.00
Chapel:		
(Stone, slate roof)		4,000.00
Settees		100.00
3 Chairs		10.00
1 Desk		5.00
1 Bible		3.00
4 Gas Heaters		25.00
1 Pedestal		28.00
Receiving Tomb		1,000.00
Office Building and Waiting Room (wooden)		3,500.00
Heating Plant		200.00
6 Chairs		8.00
3 Desks		85.00
2 Tables		15.00
1 Book Case		25.00
1 Clock		5.00
1 Mirror		1.00
1 Safe (vault)		200.00
1 Typewriter		25.00
1 Filing Cabinet		175.00
Rest Shelter:		
Westlawn—(Cement and Tile)		1,000.00
		<hr/>
		\$ 33,962.73

LOANS NEGOTIATED BY THE CITY SINCE 1900 AND HOW EXPENDED

Year	Loans	Improvements	Current Expenses	Waterways
1900	\$288,500.00	\$191,000.00	\$ 22,500.00	\$ 75,000.00
1901	256,100.00	206,100.00	50,000.00	
1902	222,885.00	186,385.00	36,500.00	
1903	387,320.00	183,820.00	203,500.00	
1904	254,414.00	167,714.00	86,700.00	
1905	360,150.00	232,150.00	128,000.00	
1906	247,460.00	149,440.00	71,000.00	27,000.00
1907	365,500.00	229,500.00	136,000.00	
1908	304,413.00	189,413.00	115,000.00	
1909	172,900.00	172,900.00	none	
1910	241,000.00	161,000.00	20,000.00	60,000.00
1911	412,450.00	251,450.00	61,000.00	100,000.00
1912*	546,700.00	230,700.00	241,000.00*	75,000.00
1913	542,700.00	320,700.00	147,000.00	75,000.00
1914	343,500.00	235,500.00	none	90,000.00
1915	493,000.00	34,300.00	none	150,000.00
1916	647,100.00	592,100.00	none	55,000.00
1917	780,000.00	780,000.00	none†	
1918	177,000.00	147,000.00	30,000.00	
1919	833,000.00	753,000.00	none	80,000.00
1920	1,487,000.00	1,472,000.00	none	15,000.00
1921	2,074,000.00	2,074,000.00	none	

*Temporary Loan Deficiencies of previous years—\$200.00.

†\$15,000.00—Spanish Influenza Epidemic; \$15,000.00 German War.

EXPENDITURE, TAX RATE VALUATION FROM 1860

Year	Expenditures	Tax Rate	Total City Valuation
1860	\$267,192.07	\$ 8.40	\$ 22,125,176.00
1865	756,342.81	14.60	21,076,360.00
1870	778,636.03	13.90	25,972,488.00
1875	1,162,922.95	16.20	38,690,495.00
1880	1,398,683.48	16.20	41,102,016.00
1885	1,833,483.69	16.20	51,351,780.00
1895	2,903,410.60	18.00	68,885,732.00
1890	3,613,584.04	16.00	62,353,612.00
1900	2,353,844.41	18.80	71,529,515.00
1905	2,738,502.84	20.20	71,645,718.00
1906	2,795,000.75	19.60	74,945,640.00
1907	2,718,874.34	19.40	76,079,750.00
1908	3,046,987.96	20.40	77,855,891.85
1909	2,791,607.95	19.60	79,695,960.00
1910	2,887,399.24	19.60	80,392,890.00
1911	2,873,195.26	18.90	82,772,900.00
1912	2,847,482.13	19.00	85,384,085.00
1913	3,112,853.71	19.40	87,872,600.00
1914	3,093,197.15	21.90	90,039,890.00
1915	3,207,407.84	20.80	82,954,197.00
1916	3,443,043.82	21.20	94,503,423.00
1917	3,835,043.80	23.40	90,820,901.50
1918	4,026,944.67	23.80	98,774,850.00
1919	4,462,739.28	26.00	107,269,813.00
1920	7,452,446.61	27.20	123,803,827.00
1921	7,490,450.02	31.40	128,610,023.00

DEBT MATURING IN 1922

GENERAL CITY DEBT

Department	Date of Loan	Rate	Amount of Loan \$	Amount Maturing \$
Sewer Construction	April 1, 1912	4	50,000.00	5,000.00
Rifle Range	August 1, 1912	4	3,000.00	1,000.00
Fire House Improvements	August 1, 1912	4	7,000.00	1,000.00
Market Street Bridge	August 1, 1912	4	6,500.00	650.00
Paving	August 1, 1912	4	29,100.00	2,910.00
Paving	August 1, 1912	4	21,825.00	2,182.50
Paving	August 1, 1912	4	21,825.00	2,182.50
Library	September 1, 1912	4	4,000.00	400.00
Dracut Road	December 1, 1912	4	5,100.00	510.00
Con. Hospital	December 1, 1912		248,000.00	24,800.00
Previous Years				
Schools				
Streets				
Macadamizing	April 1, 1917	4	70,000.00	14,000.00
New Sidewalks	May 1, 1920	5	10,000.00	5,000.00

HIGH STREET CHURCH CLOCK

The clock was built in 1861 under the direction of Mr. George Hedrick. It was to be paid for by popular subscription, but after some time Mr. Hedrick was obliged to make the final payments and it became his property. In 1877, the City Government, by resolution, purchased the clock of Mr. Hedrick. The terms of purchase required the City to keep it in repair at the High Street Church.

PAYMENTS MADE TO SINKING FUNDS IN 1919

	Amount	Fund
City Hall and Memorial Buildings, due 1920.....	\$ 7,500.00	\$ 450,000.00
High School, due 1921	3,000.00	150,000.00
New School Houses, due 1926	4,000.00	200,000.00
Water Loans, due 1920	16,000.00	1,000,000.00
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	\$30,500.00	\$1,800,000.00

PROPERTY EXEMPT FROM TAXATION

	Personal	Real Estate	Total
Religious Institutions		\$2,866,100.00	\$2,866,100.00
Charitable Institutions	\$1,201,488.24	1,076,400.00	2,277,888.24
Literary Institutions	180,413.11	781,395.00	961,808.11
Benevolent Institutions	117,112.78	387,500.00	504,612.78
Cemetery Institutions	13,481.21	41,350.00	54,831.21
Scientific Institutions	895.90	9,450.00	10,345.90
	<hr/>	<hr/>	<hr/>
Totals	\$1,513,391.24	\$5,162,195.00	\$6,675,586.24

Jonathan Tyler Worthy Poor Trust Fund

Deposited with the Washington Inst. for Savings, Book No. 23549.

Amount on deposit, Jan. 1, 1918 10,000.00

Resolutions, numbered 14 and 74, passed by the City Council, May, 1878:

"That the City of Lowell be appointed trustee of the sum of \$10,000.00, and that the City Treasurer is authorized to pay to the Ministry-at-Large the interest of said sum at the rate of 6 per cent. forever. Said sum to be used for the benefit of the worthy poor of the City. Said Ministry shall make an annual report of their dispensing said money to the City Council." This fund was restored in 1914, and City is paying 4 per cent. only.

Thomas Nesmith Fund

\$25,000.00 Annual Interest, \$1,500.00

Resolution, numbered 57, passed by the City Council, November, 1870:

"That the sum of \$25,000.00 be accepted by the City and that the interest, at the rate of 6 per cent., be paid to the trustees, and that they in turn pay to the Ministry-at-Large, or to like people, as they may decide. Said sum to be used for people in temporary need of charity without distinction of race, color or religion. Trustees: A. K. Chadwick, A. G. Cumnock, Thos. Nesmith, G. R. Chandler, Treasurer. In case of a vacancy, the remaining trustees shall report to the Justice of the Court, who shall appoint a successor to fill said vacancy." Not a trust fund.

Carney Medal Fund

Received of James G. Carney, in 1858 and 1859, the amount of \$200, which is to remain a perpetual debt of the City forever; the interest to be applied in payment for the "Carney Medals" to the departments of the High School (annually).

For the information of the citizens of Lowell the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found.

Thomas Nesmith Fund

\$1,000.00 Annual Interest, \$60.00

Resolution, numbered 54, passed by the City Council, April, 1870: "That the City of Lowell be appointed trustee of the sum of \$1,000.00, and the City Treasurer is authorized to pay to the High Street Church the interest of said sum at the rate of 6 per cent. forever. Said sum to be used by the Pastor and Deacons of said Church to sustain the Sunday School and its library for the moral and religious instruction of the children." Not a trust fund.

NEW HIGH SCHOOL

Authorized by Legislature for New High School:

Year 1915	\$ 700,000.00
Year 1919	750,000.00
Year 1920	600,000.00
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	\$ 2,050,000.00

Loans negotiated as follows:

	Dr.	Cr.
November 1, 1915		\$ 125,000.00
February 1, 1916		100,000.00
March 1, 1917		75,000.00
April 1, 1920		300,000.00
September 1, 1920		400,000.00
April 1, 1921		450,000.00
December 1, 1921		540,000.00

Receipts:

Sale of buildings	4,542.50
Appropriations, December, 1921	260.92
Received from various contractors	150.00

Payments as follows:

To Architect	\$ 63,124.01	
Auctioneer	338.85	
Contract	1,090,431.15	
Land	191,778.28	
Steel	73,016.97	
All other expenses	20,471.26	
	<hr/>	<hr/>
	\$ 1,439,162.52	\$ 1,994,953.42

Balance, December 31, 1921, based on authorized

and negotiated loans	555,790.90	
	<hr/>	<hr/>
	\$ 1,994,953.42	\$ 1,994,953.42

Balance of authorization not negotiated \$60,000.00

MEMORIAL AUDITORIUM

Dr.		Cr.
June 1, 1919, Loan		\$140,000.00
Cash received for rentals during 1919		1,242.05
September 5, 1919, Cash received for sale of buildings		3,698.00
Interest on bank balances during 1919		289.00
January, 1920, Transfer		189.29
May 1, 1920, Loan		200,000.00
September 1, 1920, Loan		200,000.00
Cash received for rentals during 1920		411.00
Interest on bank balances during 1920		71.63
April 1, 1921, Loan		200,000.00
September 1, 1921, Loan		260,000.00
Interest on bank balances during 1921		3.87
Architectural services	\$ 33,001.64	
Contracts	668,345.93	
Insurance	1,500.00	
Labor	59.97	
Land and buildings	127,443.73	
Services	250.00	
Transfers	189.29	
All other expenses	584.56	
	<hr/>	<hr/>
Balance December 31, 1921	\$831,375.12	\$1,005,904.84
	174,529.72	
	<hr/>	<hr/>
	\$1,005,904.84	\$1,005,904.84

The Commonwealth of Massachusetts

DEPARTMENT OF CORPORATIONS AND TAXATION

Division of Accounts



REPORT OF AN AUDIT
of the
ACCOUNTS
for the
CITY OF LOWELL
Year Ending
DECEMBER 31, 1921

Made in Accordance with the Provisions of Section 40, Chapter 44, General Laws.

MAY 17, 1922

May 17, 1922.

To the Honorable George H. Brown, Mayor,
and the Municipal Council,
Lowell, Massachusetts.

Gentlemen:

I submit herewith my report of an audit of the accounts of the City of Lowell for the year ending December 31, 1921, made in accordance with the provisions of Section 40 of Chapter 44 of the General Laws. This report is in the form of a report made to me by Mr. Edward H. Fenton, Chief Examiner of this Division, who was placed in charge of the work.

Very truly yours,

Theodore N. Waddell,
Director of Accounts.

Mr. Theodore N. Waddell,
Director of Accounts,
Department of Corporations and Taxations,
State House, Boston.

Sir:

In accordance with your instructions I have made an audit of the books and accounts of the City of Lowell for the year ending December 31, 1921, and submit the following report.

The surety bonds furnished by the departmental officials for the faithful performance of their duties were examined and found to be in proper form.

The financial transactions of the city as recorded on the books of the several departments were checked and compared with the reports and books in the auditor's office.

The books and accounts in the auditor's office were examined and checked; the records of receipts were checked with the treasurer's books, and with the records in the several departments collecting money for the city. The reported disbursements were checked with the treasury warrants authorizing the payment of money and with the treasurer's cash book.

The appropriation accounts were examined and all appropriations, transfers and loan orders were checked with the records of the Municipal Council. The auditor's office did not have notice of a supplementary appropriation of \$25,000 for the school department, but this

account was adjusted by an overdraft appropriation at the close of the year.

The accounts receivable ledger, in which are entered the detail of the departmental accounts, was examined and checked with the bills made out by the several departments, and with the payments to the treasurer.

An entry was made adjusting the controlling account in the general ledger for the beginning of the year, and the outstanding accounts were listed and proved to the control account at the close of the year by making an adjustment for some departmental bills made out in 1921 but not reported to the auditor until after December 31, 1921.

All department receipts of money should be paid to the treasurer at least monthly, and all departmental bills rendered should be reported to the auditor monthly. It is recommended that a complete settlement and reporting of bills made out be made by each department prior to the closing of the books for the fiscal year; otherwise, it is impossible for the books to show the true financial condition of the city.

The records of debt issued were examined and the loans found to be properly authorized. The reported payments on account of debt and interest were compared with the amounts falling due and with the debt and interest book in the treasurer's office.

The outstanding debt was listed from the debt record and compared with the amounts outstanding as shown by the auditor's ledger.

The ledger accounts were examined and checked and a trial balance was taken off proving the ledger to be in balance.

A balance sheet, showing the financial condition of the city as of December 31, 1921, was prepared and is appended to this report.

The books and accounts of the treasurer and collector were examined and checked.

The reported receipts as recorded on the cash book were checked with the reports to the auditor and with the departmental records, and the payments by the treasurer were compared with the warrants authorizing them and with the auditor's books.

The cash on hand was verified by an actual count, and the bank balances were reconciled with the statements furnished by the banks.

The commitments of taxes, assessments, and departmental charges were proved and checked to the warrants, and the receipts were checked with the payments to the treasurer and with the auditor's books.

The abatements were checked with the departmental reports of abatements granted and the outstanding accounts were listed and proved to the control-accounts in the auditor's books. A further verification of the outstanding-accounts was made by mailing notices

to a large number of persons whose names appeared on the books as owing money to the city, and from the replies received, I am satisfied that the accounts are correct.

Tables showing a reconciliation of cash and summaries of the tax, assessment, and departmental accounts are appended to this report.

The receipts of the city clerk's department for licenses and marriage permits were checked in detail with the records of licenses and permits issued, and the fees for recording mortgages, conditional bills of sale, etc., were verified by the books in which they were entered. The payments to the treasurer were checked to the treasurer's and the auditor's books.

The receipts of the license commissioners were examined and checked. The records of licenses issued were checked with the copies of licenses on file, and the payments to the treasurer were compared with the treasurer's and the auditor's books. The following is a summary of the accounts:

Issued:

Amusements and Shows	\$ 1,548.00	
Auctioneers	66.00	
Bicycle and Motorcycle	4.00	
Coffee Houses	165.00	
Express and Job Wagons	172.00	
Hawkers' and Peddlers' No. 1	1,646.00	
Hawkers' and Peddlers' No. 2	29.00	
Innholders' and Victuallers'	643.00	
Intelligence Offices	16.00	
Junk Dealers' and Collectors'	182.00	
Junk Dealers' Badges .....	.75	
Musicians'	44.00	
Pawn Brokers', Gold and Silver	162.00	
Pool and Bowling	754.00	
Old Clothing	32.00	
Sunday Ice-cream	2,747.00	
Holiday Special	438.00	
Used Car Dealers'	330.00	
Agents, Auto Dealers	555.00	
Junk	15.00	
Second Hand Tools	2.00	
Fish Cart	10.00	
Lodging Houses	334.00	
Recording	22.00	
		\$ 9,916.75
Payments to Treasurer	\$ 9,088.75	
Outstanding December 31, 1921	828.00	
		\$ 9,916.75

The records of fees charged by the sealer of weights and measures were examined and verified by the copies of the work slips. The commitments of bills to the collector amounting to \$227.01, and the payments to the treasurer were compared with the auditor's and the treasurer's books.

The following is a summary of the receipts:

Fees collected		\$ 1,049.90
Payments to Treasurer	\$ 1,048.59	
Cash on Hand December 31, 1921 ...	1.31	
		<hr/> \$ 1,049.90

The record of receipts of the library department were examined and checked. The payments to the treasurer were checked with the treasurer's and the auditor's books.

The following is a summary of the accounts:

Collections due Treasurer, January 1, 1921	\$ 621.47	
Fines and Sales	1,010.22	
Refunds on Magazines	15.59	
		<hr/> \$ 1,647.28
Payments to Treasurer	1,485.46	
Collections Due Treasurer, December 31, 1921	161.82	
		<hr/> \$ 1,647.28

The financial records of the water department were examined.

The list of bills sent out, abatements, and discounts were checked and the outstanding accounts were listed and readily proved with the auditor's books. The collections were checked with the collector's and the auditor's books. A summary of the accounts is appended to this report.

The financial records of the cemetery department were examined and verified.

The records of cash received at the cemetery office during the year, amounting to \$6,091.67, were checked, and the payments to the treasurer were compared with the treasurer's and the auditor's books.

The commitments of accounts receivable to the collector collections, and abatements were checked, and the outstanding accounts in the collector's office were listed and proved with the records in the cemetery office and in the auditor's office. There was considerable difficulty in proving the outstanding accounts in the cemetery office with the records in the collector's office, and it was found necessary to check the accounts for several years in order to reconcile them.

In the list of outstanding accounts receivable, there are a number of old accounts, some of them dating back for years, a special effort

should be made toward the collection of these accounts, if collectable; if not, they should be abated. Appended to this report is a summary of the committed bills.

The investments of the sinking and trust funds were examined and listed, the additional cemetery perpetual care funds were verified, the purchase, sale, and transfer of securities were checked to the books and the income was proved all of which were found to be as recorded.

The income of the Jonathan Tyler Worthy Poor Fund for 1921 was \$465.29, but payments were made on the basis of 4 per cent on the principal of the fund, amounting to \$400. As this fund has been restored and is now on deposit in savings banks, the total amount of income earned should be set up as trust fund income and paid for the purpose for which the fund was established. The city has discontinued paying interest on the Thomas Nesmith Poor Fund and the Thomas Nesmith Church Fund, as an opinion has been given that these funds were not actual trust funds. Both of these funds, however, are carried on the books as an obligation of the city, and therefore they should either be restored by special legislative authority so as to earn income for carrying out the terms of the bequest, or they should be returned to the heirs of the donor.

In addition to the departments and accounts mentioned, the accounts of all other departments receiving money or committing bills for collection were examined and checked to the auditor's books.

The premiums received from the sale of bonds have been allowed to accumulate for several years and have not been used in accordance with the requirements of Section 20, Chapter 44 of the General Laws, which is, in part, as follows:

Any premium received upon such bonds, less the cost of preparing, issuing and marketing them, shall be applied to the payment of the principal of the first bonds or notes so to mature, and the contributions from other sources for the payment of said bonds or notes shall be reduced correspondingly.

The balance of the overlay account for any year in excess of the outstanding taxes of that year should be transferred to a reserve fund, which may be used for extraordinary or unforeseen expenses. In this connection attention is called to the provisions of Section 25, Chapter 59 of the General Laws, which reads as follows.

The assessors in any city or town, except Boston, may add to the amount to be assessed not more than five per cent thereof, although the limit of taxation as fixed in any city may by such overlay be exceeded, such amount to be used only for avoiding fractional division of the amount to be assessed in the apportionment thereof and for abatements granted on account of polls

or property assessed in the year in which the overlay is made or of taxes in the warrant of which the overlay is a part; but any balance in the overlay account, in excess of the amount of the warrant remaining to be collected or abated, shall be transferred to a reserve fund to be used for extraordinary or unforeseen expenses.

The method of financing the water department has been changed this year. An appropriation of \$350,000 has been made for the expenditures of the department, but against this amount there is a deficit of \$58,887.05, leaving \$291,112.95 available for this year's expenditures. The departmental records should be so arranged as to show, not only the expenditures from the appropriations, but the costs of the several activities, in order that the needed work may be systematically planned for the full year and the best results be obtained from the funds available.

I desire to call attention to the fact that at the close of each year several of the appropriation accounts have been overdrawn and have been adjusted by a Council order making transfers to close out the overdrafts; and also to the fact that some departments have passed departmental bills to the auditor's office for payment during the first month of the following year which are obligations on the prior year's appropriation. If such obligations are in excess of the appropriations against which they are chargeable, they are as much overdrafts as if the bills had been passed to the auditor's office in the year in which they were contracted.

Revenue is assessed for the amounts of the appropriations which have been made, and the value of a carefully prepared budget is destroyed if transfer orders are passed at the end of the year to take care of overdrafts. Departmental officials should not incur liabilities in excess of the appropriations made for their departments; even though the appropriations are insufficient to permit the performance of work which, in their judgment, should be done, they are nevertheless bound by the amounts appropriated and should either get additional appropriations or curtail the work so as to bring the costs within the sums available.

In this connection attention is called to the following provisions of law:

No department of any city or town, except Boston, shall incur liability in excess of the appropriation made for the use of such department, except in cases of extreme emergency involving the health or safety of persons or property, and then only by a vote in a city of two thirds of the members of the city council, and in a town by a vote of two thirds of the selectmen. (Section 31, Chapter 44, General Laws.)

Any city, town or district officer who knowingly violates, or authorizes or directs any official or employee to violate, any provision of this chapter (Chap. 44, General Laws), shall be punished by a fine or not more than one hundred dollars; and the mayor, selectmen, prudential committee, or commissioners, shall, and five taxpayers may report such violation to the district attorney who shall investigate and prosecute the same. (Chapter 253, Acts of 1922.)

The accounting and financial records of the city were found to be in an excellent condition, and the careful and accurate manner in which the transactions were entered facilitated the checking of the accounts.

For the hearty co-operation and courtesy extended by every departmental official I wish, on behalf of my assistants and myself, to express my appreciation.

Respectfully submitted,

Edw. H. Fenton,

Chief Examiner.

RECONCILIATION OF TREASURER'S CASH

Cash on hand January 1, 1921	\$ 809,259.32	
Receipts, 1921	10,761,669.21	
		\$11,570,928.53
Payments, 1921	\$10,630,954.22	
Cash on hand December 31, 1921	939,974.31	
		<u>\$11,570,928.53</u>

Cash on hand January 1, 1922	\$ 939,974.31	
Receipts January 1 to February 15, 1922 ..	785,407.44	
		\$ 1,725,381.75
Payments January 1 to February 15, 1922..	\$ 847,839.36	
Cash on hand February 15, 1922	877,542.39	
		<u>\$ 1,725,381.75</u>

Cash in Office, February 15, 1922:

Bills	\$ 11,750.00	
Coin	894.07	
Checks	6,613.87	
		\$ 19,257.94

Cash in Banks, February 15, 1922:

Lowell Trust Company	\$ 39,444.19	
Union National Bank	47,663.13	
Old Lowell National Bank	94,740.91	
Middlesex Trust Company	78,041.47	
Appleton National Bank	59,019.86	
Wamesit National Bank	46,577.15	
First National Bank, Boston	46,049.39	
Middlesex Trust Company (special) ..	223,371.21	
Union National Bank (special)	223,377.14	
		\$ 858,284.45
		<u>\$ 877,542.39</u>

RECONCILIATION OF BANK BALANCES FEBRUARY 15, 1922

	Balances Per Bank Statements	Outstanding Checks per List	Balances Per checks Register
Lowell Trust Company	\$ 39,736.37	\$ 292.18	\$ 39,444.19
Union National Bank	47,703.61	40.48	47,663.13
Old Lowell National Bank	94,740.91		94,740.91
Middlesex Trust Company	147,424.93	69,383.46	78,041.47
Appleton National Bank	59,019.86		59,019.86
Wamesit National Bank	46,577.15		46,577.15
First National Bank, Boston ...	151,029.42	104,980.03	46,049.39
Middlesex Trust Company	277,918.84	54,547.63	223,371.21
(Special)			
Union National Bank	242,040.75	18,663.61	223,377.14
(Special)			
	<hr/> \$1,106,191.84	<hr/> \$247,907.39	<hr/> \$858,284.45

TAXES—1915

Outstanding January 1, 1921		\$ 1,069.64
Payments to Treasurer	\$ 296.76	
Abatements	239.36	
Outstanding December 31, 1921, per list	533.52	
		<hr/> \$ 1,069.64

TAXES—1916

Outstanding January 1, 1921		\$ 8,687.64
Outstanding Dec. 31, 1921		\$ 8,687.64
Outstanding January 1, 1922		\$ 8,687.64
Payments to Treasurer Jan. 1 to Feb. 15, 1922	\$ 148.40	
Outstanding February 15, 1922, per list	8,539.24	
		<hr/> \$ 8,687.64

TAXES—1918

Outstanding January 1, 1921		\$ 15,457.54
Payments to Treasurer	\$ 830.71	
Abatements	14,626.83	
		<hr/> \$ 15,457.54

TAXES—1919

Outstanding January 1, 1921	\$219,885.76	
Overpayments	28.00	
		\$219,913.76
Payments to Treasurer	\$203,355.90	
Abatements	603.90	
Outstanding December 31, 1921, per list	15,953.96	
		\$219,913.76

TAXES—1920

Outstanding January 1, 1921	\$782,714.58	
Reassessments	23.12	
		\$782,737.70
Payments to Treasurer	\$460,064.23	
Abatements	5,865.51	
Outstanding December 31, 1921	316,807.96	
		\$782,737.70

Outstanding January 1, 1922	\$316,807.96	
Overpayments	60.00	
		\$316,867.96
Payments to Treasurer Jan. 1 to Feb. 15, 1922	\$ 28,545.92	
Abatements Jan. 1 to Feb. 15, 1922	33.16	
Unlocated Difference	6.96	
Outstanding Feb. 15, 1922, per list	288,281.92	
		\$316,867.96

TAXES—1921

Commitment	\$4,192,261.90	
Additional Commitment	7,364.84	
Reassessment	14.13	
		\$4,199,640.87
Payments to Treasurer	\$3,167,042.65	
Abatements	27,074.55	
Outstanding December 31, 1921	1,005,523.67	
		\$4,199,640.87
Outstanding January 1, 1922	\$1,005,523.67	
Overpayments	35.00	
		\$1,005,558.67
Payments to Treasurer Jan 1 to Feb. 15, 1922	\$ 198,604.15	
Abatements Jan. 1 to Feb. 15, 1922	7,805.94	
Unlocated Difference	1.28	
Outstanding February 15, 1922, per list	799,147.30	
		\$1,005,558.67

STREET SPRINKLING ASSESSMENTS 1915

Outstanding January 1, 1921	\$	14.55	
Adjustment, unlocated difference .....		.05	
		<hr/>	\$ 14.60
Payments to treasurer	\$	2.79	
Abatements		5.18	
Outstanding December 31, 1921, per list		6.63	
		<hr/>	\$ 14.60

STREET SPRINKLING ASSESSMENTS 1918

Adjustment, unlocated difference			\$ 2.00
Overpayment January 1, 1921	\$	1.19	
Outstanding December 31, 1921, per list ....		.81	
		<hr/>	\$ 2.00

STREET SPRINKLING ASSESSMENT 1919

Outstanding January 1, 1921			\$ 3,071.30
Payments to treasurer	\$	3,053.41	
Abatements		17.89	
i		<hr/>	\$ 3,071.30

STREET SPRINKLING ASSESSMENTS 1920

Outstanding January 1, 1921			\$ 7,104.05
Payments to treasurer	\$	3,879.02	
Abatement		4.13	
Outstanding December 31, 1921		3,220.90	
		<hr/>	\$ 7,104.05
Outstanding January 1, 1922			\$ 3,220.90
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$	210.21	
Outstanding Feb. 15, 1922, per list		3,010.69	
		<hr/>	\$ 3,220.90

STREET SPRINKLING 1921

Commitment			\$ 26,368.10
Payment to treasurer	\$	17,913.44	
Abatements		59.06	
Outstanding December 31, 1921		8,395.60	
		<hr/>	\$ 26,368.10
Outstanding January 1, 1922	\$	8,395.60	
Overpayment		3.73	
		<hr/>	\$ 8,399.33
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$	1,341.72	
Unlocated difference		1.69	
Outstanding Feb. 15, 1922, per list		7,055.92	
		<hr/>	\$ 8,399.33

MOTH ASSESSMENT 1918

Outstanding January 1, 1921	\$	1.60
Abatement	\$	1.60

MOTH ASSESSMENT 1919

Outstanding January 1, 1921	\$	285.30
Payments to treasurer	\$	285.10
Abatements .....		.20
	<hr/>	\$ 285.30

MOTH ASSESSMENT 1920

Outstanding January 1, 1921	\$	847.55
Adjusting Commitment on auditor's ledger ...		3.65
Moth assessments, 1921, receipts credited in error to Moth Assessments, 1920		13.30
	<hr/>	\$ 864.50
Payments to treasurer	\$	416.00
Abatements .....		.40
Outstanding Dec. 31, 1921		448.10
	<hr/>	\$ 864.50
Outstanding January 1, 1922	\$	448.10
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$	31.55
Outstanding February 15, 1922, per list		416.55
		\$ 448.10

MOTH ASSESSMENT 1921

Commitment	\$	3,542.35
Payments to treasurer	\$	2,439.75
Moth Assessment, 1921, receipts credited in error to Moth Assessment, 1920		13.30
Outstanding December 31, 1921		1,089.30
	<hr/>	\$ 3,542.35
Outstanding January 1, 1922	\$	1,089.30
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$	134.35
Collector's Cash on hand February 15, 1922 .		.20
Outstanding February 15, 1922, per list		954.75
	<hr/>	\$ 1,089.30

SEWER ASSESSMENTS

Outstanding January 1, 1921	\$ 4,148.60	
Commitment	11,919.75	
	<hr/>	\$ 16,068.35
Payments to treasurer	\$ 10,653.73	
Abatements	420.00	
Outstanding December 31, 1921	4,994.62	
	<hr/>	\$ 16,068.35
Outstanding January 1, 1922		\$ 4,994.62
Abatements Jan. 1 to Feb. 15, 1922	\$ 214.69	
Outstanding February 15, 1922, per list	4,779.93	
	<hr/>	\$ 4,994.62

SIDEWALK ASSESSMENTS

Outstanding January 1, 1921	\$ 1,647.46	
Commitment	3,311.94	
	<hr/>	\$ 4,959.40
Payments to treasurer	\$ 3,085.32	
Outstanding December 31, 1921	1,874.08	
	<hr/>	\$ 4,959.40
Outstanding January 1, 1922	\$ 1,874.08	
Commitment January 1 to Feb. 15, 1922.....	4,306.52	
	<hr/>	\$ 6,180.60
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$ 302.59	
Outstanding February 15, 1922	5,878.01	
	<hr/>	\$ 6,180.60

WATER DEPARTMENT ACCOUNTS

Outstanding January 1, 1921	\$ 6,529.21	
Commitments	411,660.05	
	<hr/>	\$418,189.26
Payments to treasurer	\$392,223.01	
Discounts	17,923.11	
Abatements	4,042.51	
Outstanding December 31, 1921	4,000.63	
	<hr/>	\$418,189.26
Outstanding January 1, 1922	\$ 4,000.63	
Commitments Jan. 1 to Mar. 14, 1922	73,327.61	
Overpayments	7.43	
	<hr/>	\$ 77,335.67
Payments to treasurer Jan. 1 to Mar. 14, 1922	\$ 55,704.63	
Discounts Jan. 1 to Mar. 14, 1922	2,632.82	
Abatements Jan. 1 to Mar. 14, 1922	323.48	
Unlocated difference	10.07	
Outstanding March 14, 1922, per list	18,664.67	
	<hr/>	\$ 77,335.67

CEMETERY ACCOUNTS RECEIVABLE

Outstanding January 1, 1921	\$ 4,871.21	
Commitments	14,728.03	
Adjustment of Commitments	2.50	
	<hr/>	\$ 19,601.74
Payments to treasurer	\$ 13,327.74	
Collections on committed bills, entered in error, as cash receipts	28.50	
Abatements	48.00	
Outstanding December 31, 1921	6,197.50	
	<hr/>	\$ 19,601.74
Outstanding January 1, 1922	\$ 6,197.50	
Commitments January 1 to Feb. 15, 1922 ...	7,765.25	
	<hr/>	\$ 13,962.75
Payments to treasurer Jan. 1 to Feb. 15, 1922	\$ 2,723.15	
Outstanding February 15, 1922:		
Annual care	\$ 8,617.10	
Opening graves	2,103	
Sale of lots and graves	509.00	
Miscellaneous	10.50	
	<hr/>	\$ 11,239.60
	<hr/>	\$ 13,962.75

DEPARTMENTAL ACCOUNTS RECEIVABLE**Committed Accounts**

Outstanding January 1, 1921	\$ 39,152.57	
Commitments	64,497.16	
Adjustment of duplicate abatements, (school)	3,280.47	
	<hr/>	\$106,930.20
Payments to treasurer	\$ 77,987.39	
Abatements	8,796.87	
Adjustments of outstanding balance, Jan. 1, 1921	21.00	
Outstanding December 31, 1921	20,124.94	
	<hr/>	\$106,930.20

LOWELL HIGH SCHOOL SINKING FUND

	Cash	Par Value Securities	Total
On hand at beginning of year	\$ 2,077.46	\$171,000.00	\$173,077.46
On hand at end of year			
Receipts			
Securities sold or matured	\$118,000.00		
Securities transferred to New School Houses Sinking Fund	53,000.00		
Income	3,727.85		
Appropriations from city	17,000.00		
Cash on hand at beginning of year	2,077.46		150,000.00
		Transferred to city	
		Discount on securities sold and transferred ..	\$ 43,805.31
Total		Total	\$193,805.31

NEW SCHOOL HOUSES SINKING FUND

	Cash	Par Value Securities	Total
On hand at beginning of year.	\$ 9,334.12	\$169,000.00	\$178,334.12
On hand at end of year	\$ 2,324.48	\$196,000.00	\$198,324.48
		Payments	
Securities sold or matured	\$ 31,000.00	Securities purchased	\$ 5,000.00
Discount on securities pur-		Securities transferred from Lowell High	
chased and transferred	18,141.81	School Sinking Fund	53,000.00
Income	7,868.03	Discount on securities sold	9,993.75
Appropriation from city	4,000.00	Accrued interest on securities purchased	25.73
Cash on hand at beginning of			
year	9,334.12	Cash on hand at end of year	2,324.48
Total	\$ 70,343.96	Total	\$ 70,343.96

JONATHAN TYLER WORTHY POOR TRUST FUND

	Savings Deposit	Total
On hand at beginning of year	\$ 10,000.00	\$ 10,000.00
On hand at end of year	\$ 10,000.00	\$ 10,000.00
Income		
Receipts		
Income	\$ 465.29	\$ 65.29
Transferred city		
Payment for worthy poor		400.00
Total	\$ 465.29	\$ 465.29

Payments

JOHN DAVIS LIBRARY TRUST FUND

	Cash	Par Value Securities	Total
On hand at beginning of year	\$.97	\$106,221.82	\$106,222.79
On hand at end of year	\$ 26.89	\$106,231.88	\$106,258.77
Income			
Receipts			
Income	\$ 4,685.96		\$ 10.06
Sale of rights	5.82		4,766.19
National Bank Tax	110.39		26.89
Cash on hand at beginning of year .....	.97		
Total	\$ 4,803.14		\$ 4,803.14

Payments

Deposited savings bank

Transferred to city for library expenditures ..

Cash on hand at end of year

HAPGOOD WRIGHT CENTENNIAL TRUST FUND

	Savings Deposit	Par Value Securities	Total
On hand at beginning of year	\$ 1,105.67	\$ 12,150.00	\$ 13,255.67
On hand at end of year	\$ 1,735.21	\$ 12,150.00	\$ 13,885.21
<hr/>			
	Receipts	Payments	
Income	\$ 629.54	Deposited in bank	\$ 629.54
Total	\$ 629.54	Total	\$ 629.54

CEMETERY PERPETUAL CARE FUNDS

	Savings Deposit	Total
On hand at beginning of year	\$151,719.48	\$151,719.48
On hand at end of year	169,927.70	169,927.70
<hr/>		
	Receipts	Payments
Bequests	\$ 11,150.00	Deposited in bank
Income	7,058.22	\$ 18,208.22
Total	\$ 18,208.22	Total
		\$ 18,208.22

JOSEPH H. STACKPOLE CEMETERY FUND

	Savings Deposit	Total
On hand at beginning of year	\$ 1,000.00	\$ 1,000.00
On hand at end of year	\$ 1,000.00	\$ 1,000.00
Receipts		Payments
Income	\$ 45.50	Transferred to Cemetery Department
Total	\$ 45.50	Total
		\$ 45.50

TRUST FUNDS

Trust Funds:	
Cash and Securities	\$301,071.68
Funds used by City	26,200.00
	<u>\$327,271.68</u>
Jonathan Tyler Worthy Poor Fund	\$ 10,000.00
John Davis Library Fund, (par value)	106,258.77
Hapgood Wright Centennial Fund	13,885.21
Joseph R. Stackpole Cemetery Fund	1,000.00
Cemetery Perpetual Care Funds	169,927.70
	<u>\$301,071.68</u>
Used by City:	
Carney Medal Fund	\$ 200.00
Thomas Nesmith Worthy Poor Fund	25,000.00
Thomas Nesmith High Street Church Fund	1,000.00
	<u>26,200.00</u>
	<u>\$372,271.68</u>

CITY OF LOWELL

Balance Sheet—December 31, 1921

REVENUE ACCOUNTS

Assets		Liabilities	
Revenue Cash:		Temporary Loans:	
In banks and office		Anticipation of Revenue	\$1,200,000.00
Accounts Receivable:		Civilian War Poll Tax	24.00
Taxes:			
Levy of 1915	\$ 533.52	Premiums on Loans—Reserved for	
Levy of 1916	8,687.64	Payment of Debt	19,658.81
Levy of 1919	15,925.96		
Levy of 1920	316,807.96	Appropriation Balances:	
Levy of 1921	1,005,523.67	Sight Saving Classes	200.00
		Cemetery	16,591.85
Excise Taxes	\$1,347,478.75	Revenue Reserved when Collected: ..	\$ 16,791.85
		Water Revenue	\$ 4,000.63
Income Tax, 1921	11,214.32	Cemetery Revenue	6,197.50
			\$ 10,198.13
Special Assessments:			
Street Sprinkling 1915	\$ 6.63	Sewer Assessment Revenue	4,994.62
Street Sprinkling 1918 .....	.81		
Street Sprinkling 1920	3,220.90	Sidewalk Assessment Revenue ...	1,874.08
Street Sprinkling 1921	8,395.60		
			\$ 11,623.94

CITY OF LOWELL—Balance Sheet, December 31, 1921—REVENUE ACCOUNTS—Continued

Moth 1920	\$ 448.10	Overlays Reserved for Abatements:	
Moth 1921	1,089.30	Levy of 1916	\$ 1,732.31
	— \$	Levy of 1918	9,052.09
		Levy of 1919	72,559.45
		Levy of 1920	91,930.88
Sewer Assessments	4,994.62	Levy of 1921	16,746.94
			\$ 192,021.67
Sidewalk Assessments	\$ 1,874.08	Overlay Surplus—Reserve	47.01
Tax Titles	3,198.66		
		Surplus 1921 and Prior	207,704.17

Departmental Bills:

Buildings	\$ 116.14
Police	2.00
Sealer	5.24
Health	8,473.25
Highways and Sewers	1,450.77
Charity, Outdoor Relief	7,737.54
Soldiers' Relief	429.08
State Aid	7,232.00
Military Aid	4,889.50
Soldiers' Burials	300.00
Schools	1,885.92
Industrial School	25.00
	— \$ 32,546.44

CITY OF LOWELL—Balance Sheet, December 31, 1921—REVENUE ACCOUNTS—Continued

Water Rates	\$ 4,000.63
Cemetery Bills	6,197.50
Overdrawn Account:	
Water Works Department	58,887.05
	<u>\$1,653,314.34</u>
	<u>\$1,653,314.34</u>

NON-REVENUE ACCOUNTS

Assets		Liabilities	
Non-Revenue Cash:		Appropriation Balances from Loans:	
In banks and office	\$780,462.72	Fire House Construction	\$ 3,806.09
		Sewer Construction	2,906.02
Loans authorized	60,000.00	Isolated Hospital Equipment	49.72
		Public Bath and Comfort Station .	80.40
		Paving	308.77
		Macadamizing	230.42
		New Sidewalks	1,619.95
		Bridge Construction	11,580.46
		First Street Construction and Ex-	
		tension	12,004.05
		Widening Locke Street	898.70
		High School Construction	615,792.90
		School Construction	12,089.91
		Schoolhouses, 1920	5.77
		Land, Public Playgrounds	1,096.33
		Acquiring Land and Protecting	
		Water Supply	3,463.51
		Lowell Memorial Auditorium	174,529.72
			\$840,462.72
			\$840,462.72

INDEBTEDNESS

Sinking Fund Cash and Securities:			
New School House Loan Sinking Fund	\$198,324.48		
Net Funded or Fixed Debt	5,803,810.52		
		Sinking Fund Loan:	
		New School House Loan, due	\$200,000.00
		April 1, 1926	
		Serial Loans:	
		4% Loans	\$1,063,885.00
		4¼% Loans	72,200.00
		4½% Loans	1,748,850.00
		4¾% Loans	420,000.00
		5% Loans	1,915,000.00
		5¼% Loans	54,000.00
		5½% Loans	480,000.00
		6% Loans	22,000.00
			5,775,935.00
		Funds Used by City	26,200.00
			\$6,002,135.00



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Tenth Annual Report

OF THE

COMMISSIONER

OF

WATER WORKS

OF THE

CITY OF LOWELL, MASS.

To the Municipal Council for the year ending Dec. 31, 1921,
and being the Forty-Ninth Annual Report
of the Water Works Department.



Including Reports of the Superintendent,
City Engineer and Registrar

1921

The annual report of the operation of the Water Works Department of the City of Lowell for 1921 by the

Superintendent, ROBERT GARDNER,

Engineer, STEPHEN KEARNEY,

Registrar, J. W. CRAWFORD.

The following tables will show the financial operation of the
Water Works Department for the year 1921:

J. W. CRAWFORD,
Registrar.

Jan. 1, 1922.

LOWELL WATER WORKS

Balance, Jan. 1, 1921 W. Wks.			
Bal. app. Dept. equipment, loan	\$ 16,782.31	Operation and repairs	\$261,125.67
Dept. equipment, loans	30,000.00	Interest	15,410.00
Bal. for land loan	3,463.51	Payments on loans	59,000.00
Received from Water Meter rates	357,628.92	Payments for W. W. Construction Acct.	33,504.67
Received from Water fixture rates	14,250.99	Payments for Dept. Equipment Acct.	46,782.31
Received from transfers	1,579.68	Payments for Refunds	506.95
Received from labor and material	20,512.97	Bal. Purchase land	3,463.51
Received from appropriation	17,640.00	O D Jan. 1, 1921	100,952.32
O D Dec. 31, 1921	42,065.27		
	<hr/>		
	\$503,923.65		\$503,923.65

PRINCIPAL AND INTEREST, LOWELL WATER WORKS, 1921

	Amount Jan. 1, 1921	Annual Payment	Interest 1921	Amount Jan. 1, 1921	Amount Original loan	Rate Per Cent	Payable
P. S. Reservoir and Mains.....1911	10,000.00	10,000.00	400.00	.....	.....	4	Aug.
P. S. Reservoir and Mains.....1912	45,000.00	3,750.00	1,800.00	41,250.00	75,000.00	4	Sept.
P. S. Reservoir and Mains.....1913	48,750.00	3,750.00	2,193.75	45,000.00	75,000.00	4½	Aug.
Land.....1914	12,000.00	500.00	480.00	11,500.00	15,000.00	4	Aug.
Purification Plant.....1915	165,000.00	11,000.00	6,380.00	15,400.00	225,000.00	4	Apr.
Ext. Mains Dept. Equipment.....1916	11,000.00	11,000.00	220.00	.....	.....	4	May
Ext. Mains Dept. Equipment.....1919	24,000.00	6,000.00	945.00	18,000.00	30,000.00	4½	Mar.
Engine.....1919	40,000.00	10,000.00	1800.00	30,000.00	50,000.00	4½	Sept.
Engine Foundation.....1920	15,000.00	3,000.00	641.25	12,000.00	15,000.00	4¾	Feb.
Ext. Mains Dept. Equipment.....1916	.....	.....	550.00	20,000.00	20,000.00	5½	June
Ext. Mains Dept. Equipment.....1916	.....	.....	.....	10,000.00	10,000.00	5	Dec.
Total.....	\$370,750.00	\$59,000.00	\$15,410.00	\$341,750.00			

LOWELL WATER WORKS

CHARGES AND RECEIPTS, 1921

	Main't	Const.	Water	Total	EXPENDED, 1921	
Jan.-Mar.	\$ 3,676.25	\$1,742.40	\$ 74,974.43	\$ 80,393.08	Administration Expense:	
Apr.-June	3,474.53	1,042.57	78,226.35	81,743.45	Payroll.....	\$ 26,660.01
May			14,595.08	14,595.08	Supplies.....	2,229.15
July-Sept.	3,666.59	1,423.68	146,548.09	151,638.36	General Expense:	
Oct.-Dec.	3,265.54	3,072.39	77,122.08	83,459.95	Payroll.....	83,235.54
					Supplies.....	29,374.34
Total charges	\$13,082.91	\$7,281.04	\$391,465.97	\$411,829.92	Pumping Station Expense:	112,609.88
Add					Payroll.....	41,134.70
Tr. Jan. 1-20	\$ 811.99	\$1,556.27	\$ 4,160.95	\$ 6,529.21	Supplies.....	58,757.46
Total	\$13,894.90	\$8,837.31	\$395,626.92	\$418,359.13	Meter Expense:	99,892.16
Less					Payroll.....	10,748.31
Tr. Jan. 1-21	925.02	\$1,235.63	\$ 1,839.98	\$ 4,000.63	Supplies.....	8,986.16
Total	\$12,969.88	\$7,601.68	\$393,786.94	\$414,358.50	Construction Expense:	19,734.47
Less abatements.....			\$ 4,042.51		Payroll.....	16,363.53
Discounts.....			17,923.11	21,965.62	Supplies.....	17,141.14
						33,504.67
Add Transfers from Depts.....			1,579.68		Principal payments.....	\$294,630.34
Add Approximate Receipts.....			17,640.00	19,219.68	Interest payments.....	59,000.00
						15,410.00
Total Receipts				\$411,612.56	Refunds.....	\$369,040.34
						506.95
					Total Expended	\$369,547.29

FINANCIAL STATEMENT
LOWELL WATER WORKS, 1921

Maintenance

Labor

Office and officials.....	\$26,660.01	
Pumping stations.....	41,134.70	
Filter.....	14,584.64	
General maintenance.....	68,650.90	
Meters.....	10,748.31	
	<hr/>	\$161,778.56

Material:

Water works supplies.....	\$15,499.16	
Pumping station supplies.....	9,884.30	
Coal.....	48,873.16	
Stable.....	15,609.23	
Filter.....	495.10	
	<hr/>	\$ 90,360.95
		<hr/>
		\$252,139.51

Construction

Labor.....	\$16,363.53	
Material.....	17,141.14	
	<hr/>	\$ 33,504.67

FINANCIAL STATEMENT
LOWELL WATER WORKS, 1921
APPROPRIATION FOR DEPARTMENT EQUIPMENT

Bal. Jan. 1, 1921.....	\$16,782.31	
Loan.....	30,000.00	
		<hr/>
		\$46,782.31
Expended.....		\$46,782.31

APPROPRIATION FOR PURCHASE OF LAND

Balance Jan. 1, 1921.....		3,463.51
		<hr/>
	Balance to 1922	\$3,463.51

Superintendent's Report

Lowell, Mass., January 1, 1922.

Dear Sir:

Herewith are submitted tables showing operations of the Department for the year ending December 31, 1921.

ROBERT GARDNER, Supt.

METERS RUNNING JANUARY 1, 1922

Sizes in Inches	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	3"	4"	6"	8"	Total
Columbia.....	56	1								57
Crown.....	3185	1630	322	24	45	6	7	5		5224
Desper.....	14	4	3							21
Duplex.....	1		1							2
Empire.....	272	44	10	5	6	5	1			343
Empire Compound.....						1	1			2
Gem.....					5	1	4			10
Gem Empire.....							2			2
Hersey.....	2058	265	57	22	16	2	2	1	2	2425
Hersey Detector.....						1	8	27	4	40
Keystone.....	63				1					64
King.....	80	3								83
Lambert.....	811	89	19		2					921
Nash.....	568	118	55		2					743
Niagara.....	1									1
Thompson.....	5	9	1							15
Torrent.....						1	2			3
Trident.....	571	34	1	1						607
Trident Protectus.....								1	1	2
Union.....	26	7								33
Watch Dog.....	1204	79	55	19	21		1			1379
Watch Dog Compound.....						3				3
Worthington.....	29		23	24	25	6	2			109
Worthington Disc.....	755	34	22	11	12	4				838
Total.....	9699	2317	569	106	135	30	30	34	7	12,927

NEW HYDRANTS, 1921

Baltimore Ave.....	Eddy
Belle Ave.....	Ludlow
Birch.....	Eddy
Clifton.....	"
Dalton.....	"
Endicott.....	Ludlow
Jordan.....	Eddy
Keene.....	"
Lafayette.....	"
Middlesex, cor. Pawtucket.....	"
Monadnock Ave.....	"
Mort Ave..... High Service.....	"
Rosemont.....	"
Sayles.....	"
Shepard..... High Service.....	"
South, cor. Lock.....	Ludlow
Staples.....	Ludlow
Stevens, cor. Pine.....	Eddy
West Albert.....	"

19 Hydrants

HYDRANTS DISCONTINUED, 1921

Loche, cor. Gorham.....	Took out 6" Ludlow
Stevens, cor. Pine	" " " Pratt and Cady
Keene.....	" " " Flush
Monadnock Ave.....	" " " Ludlow

HYDRANTS, JANUARY, 1, 1922

Kind	Flush	2 Noz.	3 Noz.	4 Noz.	Total
Boston Machine.....	198		164		164
Chapman.....		3	106	49	158
Coffin.....			1		1
Corey.....		.	61		61
Eddy.....			67	1	68
Fairbanks.....			19		19
Flush.....					198
Glanmorgan.....			1		1
Holyoke.....					—
Kennedy.....			1		1
Lowrey..... 7					7
Ludlow.....		29	667	14	710
Michigan.....			2		2
O'Brien.....			1		1
A. P. Smith.....			48		48
Perkins.....				1	1
Pratt & Cady.....			24		24
Walker.....			17		17
Totals..... 7	198	32	1179	65	1481

HYDRANTS CHANGED, 1921

Location	Taken Out	Set
Aiken Ave., cor. Barker Ave.....	Chapman.....	Eddy
Cedar.....	Flush.....	"
Chauncey.....	Boston Machine.....	"
East Merrimack, opp. Park.....	Flush.....	"
Fairmount.....	Boston Post.....	"
Forrest.....	Chapman.....	A. P. Smith
Foster.....	Michigan.....	Eddy
Hale, opp. Grand.....	Boston Machine.....	Ludlow
Hampshire, cor. Elmwood Ave.....	Flush.....	Eddy
Howe, cor. East Merrimack.....	Chapman.....	Ludlow
Lincoln, opp. 157.....	".....	Eddy
Loring, cor. Branch.....	Flush.....	"
Madison, cor. Burns.....	".....	"
Middlesex, opp. Car House.....	Chapman.....	Ludlow
Midland, cor. Blodgett.....	Flush.....	Eddy
Pine.....	Holyoke.....	"
Rock, near School.....	Chapman.....	"
Sawtelle.....	".....	"
Smith.....	Flush.....	"
Stedman end of line.....	Chapman.....	"
Summer, opp. Farm.....	Flush.....	"
Summer, opp. 177.....	".....	"
Tanner.....	Chapman.....	Ludlow
Tyler.....	Flush.....	Eddy
Varnum Ave., opp. 881.....	Michigan.....	"
Tyler.....	Flush.....	Eddy
Worthen, opp. 441.....	Chapman.....	Ludlow

24 Hydrants changed

SERVICES CHANGED—1921

No.	Kind	CHANGED TO							Total	
		Gal. Iron $\frac{3}{4}$ "	Gal. Iron 1"	Gal. Iron 2"	L. L. I. $\frac{3}{4}$ "	L. L. I. 1"	L. L. I. 1 $\frac{1}{2}$ "	Feet	In.	
9	$\frac{3}{4}$ in. Iron.....	186-1						186	1	
1	$\frac{3}{4}$ " "		7					7		
3	$\frac{3}{4}$ " "				111-8			111	8	
2	$\frac{3}{4}$ " "					26		26		
1	$\frac{3}{4}$ " "						21-6	21	6	
5	1 " "	111-8						111	8	
7	1 " "		85-2					85	2	
1	1 " "			104				104		
3	1 " "				65-3			65	3	
1	1 " "					21-8		21	8	
1	1 " "						45-6	45	6	
1	1 $\frac{1}{2}$ " "		21					21		
1	2 " "			34-6				34	6	
6	$\frac{5}{8}$ in. Lead.....	94-10						94	10	
4	$\frac{5}{8}$ " "				43-8			43	8	
14	$\frac{3}{4}$ " "	247-2						247	2	
2	$\frac{3}{4}$ " "		39					39		
8	$\frac{3}{4}$ " "				136			136		
1	$\frac{3}{4}$ " "					23		23		
1	$\frac{3}{4}$ " "						35-3	35	3	
8	1 " "		82-1					82	1	
1	1 " "				18-6			18	6	
1	1 " "					9		9		
6	$\frac{3}{4}$ in. L. L. I.....	120-7						120	7	
5	$\frac{3}{4}$ " "				81-11			81	11	
2	1 " "	71-4						71	4	
1	1 " "					34		34		
1	1 $\frac{1}{2}$ " "						8-6	8	6	
28	$\frac{3}{4}$ in. T. L. I.....	566-9						566	9	
7	$\frac{3}{4}$ " "		185-8					185	8	
29	$\frac{3}{4}$ " "				667-8			667	8	
3	$\frac{3}{4}$ " "					79-8		79	8	
3	1 " "				23-6			23	6	
7			186					186		
174		1398-5	605-11	138-6	1148-2	193-4	110-9	3595	1	

NEW SERVICES, 1921

No.	Kind	Feet	In.
73.....	$\frac{3}{4}$ " Galvanized Iron.....	3,270	1
21.....	1 " Galvanized Iron.....	1,503	10
3.....	$1\frac{1}{2}$ " Galvanized Iron.....	168	1
3.....	2 " Galvanized Iron.....	77	
80.....	$\frac{3}{4}$ " Lead Lined.....	3,731	5
3.....	1 " Lead Lined.....	138	9
2.....	$1\frac{1}{2}$ " Lead Lined.....	81	
2.....	4 " Cast Iron.....	147	
3.....	6 " Cast Iron.....	47	
<hr/>		<hr/>	
190		9,164	2

Total formerly laid.....	576,794-10
Total now laid.....	585,956
Total number services laid.....	15,585
Total number cut off at main.....	1,114
Total number reconnected.....	108
Total number now in use.....	14,579
Average length of service.....	40.19 ft.

HIGH SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1921

Street	Location	Size		
		6"	12"	16"
Birch St.	On E. L. Fairmount, 12 ft. S. of N. Birch.....			1
Birch St.	On Hydt. 249 ft. E. of Fairmount, 10 ft. S. of N. Birch.....	1		
Birch St.....	On Hydt., 11 ft. W. of Wentworth Ave., 9 ft. S. of N. Birch.....	1		
Birch St.....	2 ft. W. of W. Wentworth Ave., 12 ft. S. of N. Birch.....			1
Christian St.....	On S. L. Richards, 13 ft. E. of W. Christian.....	1		
Fairmount St.....	On Hydt., 21 ft. S. of Hains Ave., 12 ft. E. of W. Fairmount.....	1		
Parkview Ave.....	On S. L. Shepard, 9 ft. E. of W. Parkview.....	1		
Parkview Ave.....	222 ft. N. of Shepard, 11 ft. E. of W. Parkview.....	1		
Shepard St.....	On E. L. Wentworth Ave., 13 ft. S. of N. Shepard.....		1	
Shepard St.....	On W. L. Parkview Ave., 13 ft. S. of N. Shepard.....		1	
Wentworth Ave.....	On S. L. Birch, 15 ft. E. of W. Wentworth.....	1		
Wentworth Ave.....	174 ft. S. of Shepard, on Hydt., 12 ft. E. of W. Wentworth.....	1		
Wentworth Ave.....	On N. L. Shepard, 12 ft. E. of W. Wentworth.....	1		
		9	2	2

HIGH SERVICE—LIST OF STOP GATES REMOVED DURING THE YEAR 1921

Street	Location	Size	
		6"	8"
Birch St.....	32 ft. W. of E. Fairmount, 12 ft. S. of N. Birch.....	1	
Birch St.....	1 ft. W. of W. Wentworth, 12 ft. S. of N. Birch.....	1	

HIGH SERVICE—LIST OF HYDRANTS SET DURING THE YEAR 1921

Street	Kind	Location
Birch St.....	Eddy.....	On N. S. at Wentworth Ave.....
Mort Ave.....	Eddy.....	On N. S., opp. No. 27.....
Shepard St.....	Eddy.....	On N. S. at Parkview Ave.....

HIGH SERVICE—WATER PIPE LAID DURING THE YEAR 1921

Street	Location	Length in Feet		
		6"	12"	16"
Birch St.....	Fairmount to Wentworth Ave.....			895.2
Christian St.....	From Richards St., southerly.....	141.		
Fairmount St.....	From Haines Ave. to Birch St.....			294.
Mort Ave.....	From old end W'ly.....	54.		
Parkview Ave.....	From Shepard St., northerly.....		228.	
Shepard St.....	From Wentworth Ave. to Parkview Ave.....		290.5	
Wentworth Ave.....	From Birch St. to Shepard St.....			439.5
		195.	518.5	1628.7

HIGH SERVICE—WATER PIPE REMOVED DURING THE YEAR 1921

Street	Location	Length in Feet
		6"
Birch St.....	Fairmount to Wentworth Ave.....	895.
Fairmount St.....	Haines Ave. to Birch St.....	294.
Parkview Ave.....	From Shepard St., northerly.....	228.
Wentworth Ave.....	From Birch St. to Shepard St.....	440.
		1857.

LOW SERVICE—LIST OF HYDRANTS SET DURING THE YEAR 1921

Street	Kind	Location
Baltimore Ave.....	Eddy.....	On west side at end.....
Belle Ave.....	Ludlow.....	On south side at end.....
Clifton St.....	Eddy.....	On north side at end.....
Dalton St.....	Eddy.....	On east side at end.....
Endicott St.....	Ludlow.....	On north side, 85 ft. east of Sixth Ave.....
Jordan St.....	Eddy.....	On north side at No. 27.....
Keene St.....	Eddy.....	On south side, 81 ft. east of Cedar.....
Lafayette St.....	Eddy.....	On north side, opp. No. 163.....
Middlesex St.....	Eddy.....	On north side at Pawtucket St.....
Monadnock Ave.....	Eddy.....	On west side at end.....
Rosemont St.....	Eddy.....	On west side at Conduit St.....
Sayles St.....	Eddy.....	On west side at No. 53.....
South St.....	Ludlow.....	On east side, 11 ft. south of Locke.....
Staples St.....	Ludlow.....	On west side at No. 71.....
Stevens St.....	Eddy.....	On west side, 16 ft. south of Pine St.....
West Albert St.....	Eddy.....	On north side, opp. Walton St.....

LOW SERVICE—LIST OF HYDRANTS REMOVED DURING THE YEAR 1921

Street	Kind	Location
Gorham St.....	Ludlow.....	On west side at Locke.....
Keene St.....	Flush.....	On north side at No. 32.....
Monadnock Ave.....	Ludlow.....	On west side, opp. No. 42.....
Stevens St.....	Pratt & Cady.....	On west side at N. L. Pine St.....

SMALL SIZE DISTRIBUTION PIPE LAID DURING THE YEAR 1921

Street	Location	Length in Feet
		1"
Hayes Ave.....	From Tolman Ave., southerly.....	114.
Osgood Ave.....	From Henry Ave., northerly.....	164.
Tolman Ave.....	From end of 8" pipe westerly.....	22.
		300.

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1921

Street	Location	Size				
		4"	6"	8"	10"	12"
Aiken Ave.....	On Hydt. at Barker Ave., 9 ft. W. of E. Aiken Ave.....		1			
*Amory St.....	28 ft. E. of E. Brookings, 18 ft. N. of S. Amory (F. Service)....		1			
Baltimore Ave.....	On S. L. W. Albert, 12 ft. E. of W. Baltimore.....		1			
Belrose Ave.....	On W. L. Wellington, 12 ft. N. of S. Belrose.....		1			
Bridge St.....	48 ft. S. of Central Br., 14 ft. E. of W. Bridge.....					1
Bridge St.....	35 ft. N. of Central Br., 22½ ft. E. of W. Bridge.....					1
*Brown St.....	2 ft. N. of S. Stackpole, 13 ft. W. of E. Brown.....	1				
Chauncey St.....	On Hydt. opp. No. 34, 9 ft. E. of W. Chauncey.....		1			
Dalton St.....	On N. L. Farmland Rd., 12 ft. W. of E. Dalton.....		1			
*Davidson.....	39 ft. W. of W. L. Wall, 13 ft. S. of N. Davidson.....		1			
Hampshire St.....	On Hydt. at Elmwood, 9 ft. W. of E. Hampshire.....		1			
Hale.....	On Hydt. opp. Grand, 8 ft. N. of S. Hale.....		1			
Howe St.....	On Hydt. 4 ft. S. of E. Merrimack, 9 ft. E. of W. Howe.....		1			
*Jordan St.....	16 ft. E. of W. Riverside, 12 ft. S. of N. Jordan.....		1			
Keene St.....	On Hydt. 81 ft. E. of Cedar, 9 ft. N. of S. Keene.....		1			
Lafayette St.....	On E. L. Rosemont, 13 ft. S. of N. Lafayette.....		1			
Lincoln St.....	On Hydt. at No. 157, 10 ft. N. of S. Lincoln.....		1			
Loring St.....	On Hydt. at Branch, 9 ft. E. of W. Loring.....		1			
Madison St.....	On Hydt. at Burns, 9 ft. S. of N. Madison.....		1			
*Market St.....	49 ft. W. of W. Shattuck, 7 ft. S. of N. Market.....	1	1			
*Merrimack St.....	Fire Service to Mongeau Bldg., 21 ft. S. of N. Merrimack.....					
*Middlesex St.....	On Hydt. at Pawtucket St., 15 ft. S. of N. Middlesex.....		1			
Middlesex St.....	On Hydt. opp. No. 1388, 12 ft. S. of N. Middlesex.....		1			
Midland St.....	On Hydt. at Blodget St., 9 ft. S. of N. Midland.....		1			
Pine St.....	On Hydt. at No. 83, 9 ft. S. of N. Pine.....		1			
Rogers St.....	On Hydt. opp. Berkeley Ave., 9 ft. S. of N. Rogers.....		1			
Rosemont St.....	On S. L. Martin, 13 ft. E. of W. Rosemont.....			1		
Smith St.....	On Hydt. opp. No. 24, 10 ft. W. of E. Smith.....		1			
South St.....	On Hydt. at Locke, 12 ft. W. of E. South.....		1			
*Stevens St.....	On Hydt. S. of Pine, 18 ft. E. of W. Stevens.....		1			
Summer St.....	On Hydt. opp. FAVOR, 10 ft. N. of S. Summer.....		1			
Tanner St.....	On Hydt. at Montreal, 11 ft. W. of E. Tanner.....		1			
*Thorndike St.....	On Hydt. 49 ft. S. of Highland, 13 ft. W. of E. Thorndike.....		1			
Tyler St.....	On Hydt. opp. No. 51, 9 ft. N. of S. Tyler.....		1			
Varnum Ave.....	On Hydt. at No. 881, 11 ft. S. of N. Varnum Ave.....		1			
Wellington Ave.....	On S. L. Hoyt Ave., 12 ft. E. of W. Wellington.....			1		
Wellington Ave.....	On S. L. Belrose Ave., 12 ft. E. of W. Wellington.....			1		
*West Albert St.....	11 ft. E. of W. Stevens, 12 ft. S. of N. W. Albert.....			1		
Worthen St.....	On Hydt. at No. 441, 11 ft. E. of W. Worthen.....			1		
		2	33	2		2

LOW SERVICE—WATER PIPE LAID DURING THE YEAR 1921

Street	Location	Length of Pipe in Feet		
		4"	6"	8"
Amory St.....	Fire Service to Merrimack Sq. Garage.....	65	23	
Baltimore St.....	From W. Albert, easterly.....		747	
Barasford St.....	From old end, northerly.....		129	
Belle Ave.....	From old end, westerly.....		568.5	
Belrose Ave.....	From Wellington Ave., westerly.....		90.8	
Brown St.....	Fire Service to Public Memorial.....			
Clifton St.....	From old end at No. 26, westerly.....		97.5	
Dalton St.....	From Farmland Road, northerly.....		398	
Davidson St.....	Fire Service to Buick Co.....		15	
Endicott St.....	From old end, at No. 57, westerly.....		290	
Jordan St.....	From Riverside St., westerly.....		282.5	
Lafayette St.....	From Rosemont St., easterly.....		425	
Lowell St.....	From Delmont St., northerly.....		27	
Market St.....	Fire Service, westerly, cor. Shattuck.....		9	
Merrill Ave.....	From old end, northerly to No. 79.....		180	
Merrimack St.....	Fire Service to Mongeau Bldg.....	53		
Monadnock St.....	From old end, northerly.....		96	
Rosemont St.....	From Martin St., southerly.....			228
Sayles St.....	From old end, northerly to No. 53.....		289	
Staples St.....	From old end at No. 37, southerly.....			440
Wellington Ave.....	From Hoyt Ave., southerly.....		194.3	229.5
West Albert Ave.....	From Stevens St., to Baltimore Ave.....		712	
Westchester Ave.....	From old end, westerly.....		48	
		118	4621.6	897.5

SUMMARY

Low Service water pipe laid in 1921.....	5,637.10	ft.
Low Service water pipe laid previous to 1921.....	801,900.50	ft.
	807,537.6	ft.
Low Service water pipe removed in 1921.....	00.0	ft.
Total Low Service water pipe in use Jan. 1, 1922.....	807,537.6	ft.
High Service water pipe laid in 1921.....	2,342.2	ft.
High Service water pipe laid previous to 1921.....	52,766.	ft.
	55,108.2	ft.
High Service water pipe removed 1921.....	1,857.	ft.
Total High Service water pipe in use Jan. 1, 1922.....	53,251.2	ft.
Total High and Low Service Jan. 1, 1922.....	860,788.8	ft.
Total pipe in use Jan. 1, 1922, in miles.....	163.03	ft.

LOW SERVICE

4".....	34,478.3	feet
6".....	456,937.2	"
8".....	164,413.9	"
10".....	31,308.5	"
12".....	71,747.8	"
16".....	26,235.9	"
20".....	8,659	"
24".....	9,194	"
30".....	4,563	"
Total	807,537.6	"

HIGH SERVICE

4".....	1,507	feet
6".....	29,138.5	"
8".....	4,758.5	"
10".....	2,931	"
12".....	8,403.5	"
16".....	6,512.7	"
Total	53,251.2	"

Low Service Hydrants set in 1921.....	16
High Service Hydrants set in 1921.....	3
Low Service Hydrants removed in 1921.....	4
High Service Hydrants removed in 1921.....	0

	SIZE				
	4"	6"	8"	12"	16"
Low Service Stop Gates set in 1921.....	2	33	2	2	0 = 39
Low Service Stop Gates removed in 1921.....	0	0	0	0	0 = 0
High Service Stop Gates set in 1921.....	0	9	0	2	2 = 13
High Service Stop Gates removed in 1921.....	0	2	0	0	0 = 2

METERS

Meters running January 1, 1921.....	12,707
New meters set 1921.....	232
Meters condemned 1920—Replaced 1921.....	5
Meters discontinued.....	13
Meters condemned and not replaced.....	4
Total increase for year.....	220
<hr/>	
Meters running January 1, 1922.....	12,927
Meters condemned and replaced.....	66
Private meters sold.....	57
Private meters repaired.....	5
Meters changed.....	18
Meters stopped.....	929
Meters frozen and repaired.....	98
Meters stored at shop.....	30
Meters leaking.....	53
Meters out for test.....	23
Meters discontinued.....	13
Temporary meters discontinued.....	4

Report of the City Engineer

OFFICE OF THE CITY ENGINEER,

LOWELL, MASS., January 1, 1922.

TO THE COMMISSIONER OF WATER WORKS AND FIRE
PROTECTION:

DEAR SIR:—

I have the honor to submit the forty-ninth annual report for the year ending December 31, 1921:

PUMPAGE

Total Net Pumpage for 1921.....	2,386,903,191 gallons
Total Net Pumpage for 1920.....	2,620,913,964 gallons
Decrease in 1921.....	234,010,773 gallons

CONSUMPTION

Consumption in 1921.....	2,386,018,085 gallons
Consumption in 1920.....	2,614,818,710 gallons
Decrease in 1921.....	228,800,625 gallons

The maximum pumpage for any one day was on Thursday, June 30th, viz:

At West Sixth Street Station.....	7,689,757 gallons
At Cook Wells Station.....	1,266,048 gallons
Total.....	8,955,805 gallons

The maximum pumpage for one week was of the week of June 26th to July 2nd, viz.:

At West Sixth Street Station.....	47,441,961 gallons
At Cook Wells Station.....	8,362,432 gallons
Total.....	55,804,393 gallons
High Service Pumpage for 1921.....	30,745,610 gallons
High Service Pumpage for 1920.....	39,912,100 gallons
Cost of Low Service Pumpage in 1921.....	\$ 32.78 per million gals.
Cost of Low Service Pumpage in 1920.....	38.65 per million gals.
Decrease in 1921.....	5.87 per million gals.
Cost of High Service Pumpage in 1921.....	95.19 per million gals.
Cost of High Service Pumpage in 1920.....	67.33 per million gals.
Cost of Low Service Pumpage, exclusive of Cook Wells, in 1921	32.99 per million gals.
Total Cost of High Service Pumpage (Cost of Low Service plus Cost of High Service, exclusive of Cook Wells), in 1921....	\$128.14 per million gals.

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS
DURING THE YEAR 1921

PUMPING STATIONS											Grand Totals	Net Totals
Months	Driven Wells				Net Totals	West Sixth Street						
	Cook Wells	Pawtucket Boulevard		Snow Worthington		Allis-Chalmers	Total Low Service	High Service				
	Holly Pump	Kerr Turbine	Totals									
January.....	196,515,000	195,015,000	391,530,000		206,827,135	206,827,135	2,512,271	600,896,406		206,827,135		
February.....	173,655,000	172,335,000	345,990,000		178,040,930	178,040,930	2,202,256	526,233,186		178,040,930		
March.....	190,170,000	188,610,000	378,780,000		194,504,785	194,504,785	2,487,967	575,772,752		194,504,785		
April.....	182,790,000	181,350,000	364,140,000		29,629,157	157,509,935	187,139,092	2,293,080	553,572,172	187,139,092		
May.....	190,155,000	188,475,000	378,630,000		17,802,617	183,425,929	201,228,546	2,961,895	582,820,441	201,228,546		
June.....	5,727,680	204,990,000	203,550,000	414,267,680	5,727,680	57,475,464	210,833,469	2,293,080	627,394,229	216,561,149		
July.....	2,634,752	212,745,000	211,185,000	426,564,752	2,634,752		217,901,265	2,632,768	647,098,785	220,536,017		
August.....	209,760,000	208,080,000	417,840,000			66,056,855	152,101,167	2,576,813	638,574,835	218,158,022		
September.....	207,240,000	205,620,000	412,860,000			131,278,938	75,022,887	2,875,050	622,036,875	206,301,825		
October.....	196,455,000	194,895,000	391,350,000			188,638,743		2,806,895	582,795,638	188,638,743		
November.....	178,650,000	177,270,000	355,920,000			177,416,200		2,216,040	535,552,240	177,416,200		
December.....	186,060,000	184,740,000	381,046,848	10,246,848		181,303,899		2,887,495	565,238,242	191,550,747		
Totals.....	18,609,280	2,329,185,000	2,311,125,000	4,658,919,280	18,609,280	849,601,873	1,518,692,038	2,368,293,911	30,745,610	7,057,958,801	2,386,903,191	

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED, AND COST OF PUMPING AT THE
SEVERAL STATIONS DURING THE YEAR 1921

Pumping Station	Source of Supply—Well Water				Cost	
	555 Driven Wells at Pawtucket Boulevard	210 Driven Wells in Valley of River Meadow Brook	Distributing Mains of Low Service System	Totals in U. S. Gallons	Totals	Per Million Gallons
West Sixth Street—Low Service.....	2,368,293,911			2,368,293,911	\$37,738.93	\$15.93+
High Service.....						
Cook Wells.....			30,745,610	30,745,610	2,926.70	95.19+
Lower Boulevard.....		18,609,280		18,609,280	1,137.25	61.11+
Total Pumpage.....	2,311,125,000			2,311,125,000	39,371.54	17.04—
Deduct Quantity at Lower Boulevard.....				4,728,773,801	81,174.42	17.17—
Pumped by High Service.....	2,311,125,000		30,745,610	2,341,870,610		
Net Pumpage.....						
Cost exclusive of High Service.....				2,386,903,191	81,174.42	24.01—
Cost exclusive of High Service and Cook Wells.....				2,386,903,191	78,247.72	32.78+
Total Cost High Service Pumpage.....				2,337,548,301	72,110.47	32.99—
				30,745,610	3,939.60	128.14—

The following tables, showing the performance of the engines, depth and quantity of water in the Beacon Street Reservoir and Christian Street, Reservoir, average temperature of the air and water at the Christian Street Reservoir, and the average monthly and daily consumption of water have been calculated and compiled from the records kept by the engineers and gate-keeper.

TABLE SHOWING WORK DONE WITH ALLIS-CHALMERS ENGINE AT WEST SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR 1921

Months	No. of days Pumping	Average No. of hours Pumping per day	No. of hours Pumping per month	No. of Strokes made per month	Average No. of Strokes per minute	Average head including Friction in feet	Quantity Pumped per month in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons	No. Gals. of water Pumped into res. per lb. total coal consumed	Duty in lbs. 1 foot high coal used in pumping only no deduction for ashes or clinkers
January.....	31	24—	744	1,487,965	33.33	190.87	206,827,135	6,671,843	1,110	172,620,986
February.....	28	24—	672	1,280,870	31.77	190.87	178,040,930	6,358,604	1,100	174,719,566
March.....	31	23—31	729	1,399,315	31.99	190.87	194,504,785	6,274,347	1,110	176,958,026
April.....	30	20—07	603¾	1,133,165	31.25	190.87	157,509,935	5,250,331	868	137,981,790
May.....	31	22—54	710	1,319,611	30.98	190.87	183,425,929	5,916,965	1,005	167,744,979
June.....	26	21—46	566	1,103,295	32.49	190.87	153,358,005	5,898,385	1,116	177,605,892
July.....	31	23—50	739	1,567,635	35.35	190.87	217,901,265	7,029,073	935	149,252,925
August.....	23	22—06	508½	1,094,253	35.86	190.87	152,101,167	6,613,094	875	139,250,100
September.....	14	18—51	264	539,733	34.07	190.87	75,032,887	5,358,777	987	154,697,939
October.....										
November.....										
December.....										
Totals and Averages.....	245	22—36	5,536¾	10,925,842	32.89	190.87	1,518,692,038	6,198,743	1,001	160,674,067

TABLE SHOWING WORK DONE WITH SNOW-WORTHINGTON PUMPING ENGINE
AT PUMPING STATION, WEST SIXTH STREET, DURING THE YEAR 1921

Months	No. of days Pumping	Average No. of hours Pumping per day	No. of hours Pumping per month	No. of Strokes made per month	Average No. of Strokes made per minute	Average head including friction in feet	Quantity pumped in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons	No. Gals. of water pumped into res. per lb. total coal consumed	Duty in lbs. 1 foot high coal used in Pumping only no deduction for ashes or clinkers
January.....										
February.....										
March.....										
April.....	15	7-02	105½	163,697	25.86	190.87	29,629,157	1,975,277	795	118,158,394
May.....	11	6-07	67	98,357	24.47	190.87	17,802,617	1,618,419	750	111,563,919
June.....	12	16-55	203	317,544	26.07	190.87	57,475,464	4,789,622	795	118,648,305
July.....										
August.....	11	21-27	235	364,955	25.88	190.87	66,056,855	6,005,186	845	126,234,645
September.....	22	20-38	454	725,298	26.62	190.87	131,278,938	5,967,224	770	114,734,882
October.....	30	24-00	720	1,042,203	24.12	190.87	188,638,743	6,287,958	800	118,976,365
November.....	30	23-48	714	980,200	22.88	190.87	177,416,200	5,913,873	801	126,166,911
December.....	31	23-46	737	1,001,679	22.65	190.87	181,303,899	5,848,513	775	115,456,059
Totals and Averages.....	162	19-58	3,235½	4,693,933	24.18	190.87	849,601,873	5,244,456	800	119,254,504

TABLE SHOWING WORK DONE WITH HIGH SERVICE ENGINE, "STEAM TURBINE," AT WEST SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR 1921

Months	No. of days Pumping	Average No. of hours Pumping per day	No. of hours Pumping per month	Average head including friction in feet	Quantity Pumped per month in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons	No. Gals. of water Pumped into reservoir per lb. of total coal consumed	Coal in pounds used when Pumping
January.....	31	24-00	744	48.38	2,512,271	81,041	37	68,200
February.....	28	24-00	672	48.38	2,202,256	78,652	36	61,600
March.....	31	24-00	744	48.38	2,487,967	80,257	37	68,200
April.....	30	24-00	720	50.69	2,293,080	76,436	35	66,000
May.....	31	24-00	744	52.99	2,961,895	95,545	43	68,200
June.....	30	24-00	720	55.30	2,293,080	76,436	35	66,000
July.....	24	10-12	245	57.60	2,632,768	84,928	107	24,650
August.....	18	3-43	67	57.60	2,576,813	83,123	768	3,350
September.....	22	4-5	90	57.60	2,875,050	95,835	638	4,500
October.....	19	3-44	71	55.30	2,806,895	90,545	791	3,550
November.....	17	5-00	85	52.99	2,216,040	73,860	522	4,250
December.....	20	4-15	85	48.38	2,887,495	93,145	679	4,250
Totals and Averages.....	301	16-34	4,987	52.99	30,745,610	84,235	70	442,750

Hayes Steam Turbine running from July to December.

TABLE SHOWING WORK DONE WITH DEAN ENGINES AT COOK WELLS PUMPING STATION, FOR
EACH MONTH DURING THE YEAR 1921

Months	No. of days Pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of Strokes made per month.	Average No. of Strokes made per minute	Average head including Friction in feet	Quantity Pumped per month in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons	No. Gals. of water Pump- ed into distributing mains per lb. total coal consumed	Duty in lbs. 1 foot high with 100 lbs. total coal used no deduction for ashes or clinkers
January.....										
February.....										
March.....										
April.....										
May.....										
June.....	5	11-18	56-30	89,495	26.40	174.64	5,727,680	1,145,536	184	26,833,931
July.....	2	12-00	24-00	41,168	28.59	193.01	2,634,752	1,317,376	251	40,406,615
August.....										
September.....										
October.....										
November.....										
December.....	9	15-33	140-00	160,107	19.06	174.12	10,246,848	1,138,539	197	28,625,814
Totals and Averages.....	16	13-47	220-30	290,770	21.98	176.64	18,609,280	1,163,080	199	29,299,828

TABLE SHOWING WORK DONE WITH HOLLY HIGH DUTY ENGINE (CRANK AND FLYWHEEL)
AT BOULEVARD PUMPING STATION, FOR EACH MONTH DURING THE YEAR 1921

Months	No. of days Pumping	Average No. of hours pumping per day	No. of pumping per month	No. of Strokes made per month	Average No. of Strokes per minute	Average head including friction in feet	Quantity Pumped in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons
January.....	31	23-44	735 $\frac{3}{4}$	1,310,100	29.68	56.93	196,515,000	6,336,193
February.....	28	23-52	668 $\frac{1}{2}$	1,157,700	28.86	57.75	173,655,000	6,201,964
March.....	31	23-57	742 $\frac{1}{2}$	1,267,800	28.46	57.62	190,170,000	6,134,516
April.....	30	23-40	710	1,218,600	28.61	56.16	182,790,000	6,093,000
May.....	31	23-41	734 $\frac{1}{2}$	1,267,700	28.77	55.55	190,155,000	6,134,032
June.....	30	23-54	717	1,366,606	31.77	57.70	204,990,000	6,833,000
July.....	31	23-49	738 $\frac{1}{2}$	1,418,300	32.01	56.53	212,745,000	6,862,742
August.....	31	23-30	728 $\frac{1}{2}$	1,398,400	31.99	57.07	209,760,000	6,766,452
September.....	30	23-45	712 $\frac{3}{4}$	1,381,600	32.31	57.24	207,240,000	6,908,000
October.....	31	23-52	740	1,309,700	29.50	56.27	196,455,000	6,337,258
November.....	30	23-45	712	1,191,000	27.88	56.50	178,650,000	5,955,000
December.....	31	23-51	739 $\frac{1}{4}$	1,240,400	27.98	57.70	186,060,000	6,001,935
Totals and Averages.....	365	23-47	8,679 $\frac{1}{4}$	15,527,900	28.82	56.91	2,329,185,000	6,381,329

TABLE SHOWING AMOUNT OF COAL USED FOR ALLIS-
CHALMERS ENGINE AT PUMPING STATION, WEST SIXTH
STREET, DURING THE YEAR 1921

Months	COAL CONSUMED			
	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds
January.....		190,798		190,798
February.....		162,270		162,270
March.....		175,033		175,033
April.....		181,780		181,780
May.....		174,129		174,129
June.....		137,502		137,502
July.....		232,486		232,486
August.....		173,939		173,939
September.....		77,227		77,227
October.....				
November.....				
December.....				
Totals.....		1,505,164		1,505,164

TABLE SHOWING AMOUNT OF COAL USED FOR SNOW
 WORTHINGTON ENGINE AT PUMPING STATION, WEST
 SIXTH STREET, DURING THE YEAR 1921

Months	COAL CONSUMED			
	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds
January.....				
February.....				
March.....				
April.....		37,400		37,400
May.....		23,800		23,800
June.....		72,250		72,250
July.....				
August.....		78,047		78,047
September.....		170,654		170,654
October.....		236,476		236,476
November.....		209,732		209,732
December.....		234,211		234,211
Totals.....		1,062,570		1,062,570

TABLE SHOWING AMOUNT OF COAL USED FOR DEAN
ENGINES AT PUMPING STATION, COOK WELLS, DURING THE
YEAR 1921

Months	COAL CONSUMED			
	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds
January.....				
February.....				
March.....				
April.....				
May.....				
June.....		31,100		
July.....		10,500		
August.....				
September.....				
October.....				
November.....				
December.....		52,000		
Totals.....		93,600		

TABLE SHOWING AMOUNT OF COAL USED FOR HOLLY ENGINE AND KERR TURBINE, AT PUMPING STATION, BOULEVARD WELLS, DURING THE YEAR 1921

Months	COAL CONSUMED				Gals. pumped into conduit per lb. total coal consumed
	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds	
January.....		269,055		269,055	725
February.....	500	247,515		248,015	703
March.....	2,500	268,930		271,430	676
April.....	2,000	239,610		241,610	757
May.....	1,200	223,385		224,585	845
June.....	2,000	246,645		248,645	825
July.....	1,500	252,035		253,535	837
August.....		260,080		260,080	800
September.....	1,500	240,565		242,065	877
October.....		206,225		206,225	944
November.....	2,500	222,060		224,560	800
December.....	1,500	254,945		256,445	725
Totals.....	15,200	2,931,050		2,946,250	790

WEST SIXTH STREET PUMPING STATION, ALLIS-CHALMERS ENGINE;
RUNNING EXPENSES FOR THE YEAR 1921

Pay of Engineers and Firemen.....	\$13,051.26
56. 1160-2000 tons (1920) coal at \$16.00.....	905.28
696. 4-2000 tons (1921) coal at \$11.16.....	7,767.38
Engine Repairs.....	144.14
Boiler Repairs.....	347.56
Elec. Engine Repairs.....	100.85
Supplies.....	1,264.22
Sundries.....	89.92
Total.....	\$23,670.61

Cost of pumping water into reservoir, per million gallons, \$15.59—.

Cost of pumping water 1 foot high, per million gallons, \$0.08 16/100

WEST SIXTH STREET PUMPING STATION, HIGH SERVICE ENGINE;
RUNNING EXPENSES FOR THE YEAR 1921

Pay of Engineers and Firemen.....	\$ 414.33
15. 1980-2000 tons of coal (1920) at \$16.00.....	255.84
205. 770-2000 tons of coal (1921) at \$10.87.....	2,232.53
Supplies.....	24.00
Total.....	\$2,926.70

Cost of pumping water into reservoir, per million gallons, \$95.19+.

Cost of pumping water 1 foot high, per million gallons, \$1.79 63/100.

WEST SIXTH STREET PUMPING STATION, SNOW-WORTHINGTON
ENGINE, RUNNING EXPENSES FOR THE YEAR 1921

Pay of Engineers and Firemen.....	\$ 7,250.70
531. 570-2000 tons (1921) coal at \$10.31.....	5,477.55
Engine Repairs.....	9.68
Electric Engine Repairs.....	96.50
Boiler Repairs.....	507.16
Supplies.....	681.40
Sundries.....	45.33
Total.....	\$14,068.32

Cost of pumping water into reservoir per million gallons, \$16.56.

Cost of pumping water 1 foot high, per million gallons, \$0.08 67/100.

COOK WELLS PUMPING STATION, DEANE ENGINES: RUNNING
EXPENSES FOR THE YEAR 1921

Pay of Engineers and Firemen.....	\$ 373.70
40. 1760-2000 tons of coal (1920) at \$13.51.....	564.72
Engine Repairs.....	48.07
Boiler Repairs.....	24.34
Supplies.....	89.75
Sundries.....	36.87
Total.....	<u>\$1,137.25</u>

Cost of pumping water into distributing mains, per million gallons, \$61.11+.

Cost of pumping water 1 foot high per million gallons, \$0.34 59/100.

LOWER BOULEVARD PUMPING STATION, HOLLY ENGINE AND KERR
TURBINE, RUNNING EXPENSES FOR THE YEAR 1921

Pay of Engineers and Firemen.....	\$20,044.71
67. 000-2000 tons of coal (1920) at \$14.25.....	954.75
1406. 250-2000 tons of coal (1921) at \$11.15.....	15,678.29
Engine Repairs.....	491.90
Boiler Repairs.....	532.11
Supplies.....	1,341.20
Sundries.....	328.58
Total.....	<u>\$39,371.54</u>

Cost of pumping water into conduit, per million gallons, \$17.03.+

Cost of pumping water 1 foot high, per million gallons, \$0.29 93/100.

BEACON STREET RESERVOIR, 1921

Months	Depth in feet	Quantity in U. S. Gallons	Temperature in Degrees	
			of Water	of Air
January.....	18.96	28,769,687	36.4	27.5
February.....	19.10	29,008,382	35.7	30.0
March.....	19.25	29,252,449	41.7	43.9
April.....	19.51	29,701,885	50.2	50.5
May.....	19.63	29,882,180	57.6	57.3
June.....	19.01	28,851,696	69.4	69.5
July.....	19.61	29,864,546	74.5	75.2
August.....	19.93	30,403,830	72.0	69.1
September.....	18.89	28,651,755	69.4	67.0
October.....	19.73	30,057,473	57.8	52.8
November.....	19.52	29,706,897	45.0	37.2
December.....	19.75	30,092,566	35.9	27.6

CHRISTIAN STREET RESERVOIR, 1921

Months	Elevation	Quantity in U. S. Gallons	Temperature in Degrees	
			of Water	of Air
January.....	204.15	3,387,048	53.5	27.5
February.....	204.63	3,489,151	50.1	30.0
March.....	202.37	3,029,693	48.2	43.9
April.....	208.15	4,208,097	46.4	50.5
May.....	201.23	2,795,710	46.5	57.3
June.....	204.67	3,497,659	49.8	69.5
July.....	205.85	3,740,150	55.3	75.2
August.....	204.42	3,446,608	60.1	69.1
September.....	204.05	3,372,168	62.7	67.0
October.....	208.89	4,360,747	63.7	52.8
November.....	204.65	3,493,405	61.2	37.2
December.....	201.23	2,795,710	58.2	27.6

TABLE SHOWING THE AVERAGE MONTHLY AND DAILY CONSUMPTION FOR THE YEAR 1921

Months	Gallons per Month	Gallons per Day
January.....	207,162,808	6,682,671
February.....	177,609,146	6,343,183
March.....	191,991,248	6,193,266
April.....	186,752,042	6,225,068
May.....	202,944,368	6,546,592
June.....	215,141,077	7,171,369
July.....	222,803,122	7,187,197
August.....	218,675,254	7,054,040
September.....	203,097,218	6,769,907
October.....	190,066,865	6,131,189
November.....	178,833,338	5,961,111
December.....	190,941,599	6,159,406
Totals and Averages.....	2,386,018,085	6,537,036

The following table shows the average daily consumption of water, in gallons, for each month and each year from January 1900 to January 1922.

AVERAGE DAILY CONSUMPTION OF WATER IN GALLONS FOR EACH MONTH AND YEAR FROM
JANUARY, 1900, TO DECEMBER, 1921, INCLUSIVE

Years	MONTHS												For the Year
	January	February	March	April	May	June	July	August	September	October	November	December	
1900	7,511,163	8,127,419	8,024,115	7,665,888	7,734,911	8,037,993	8,696,110	8,268,526	8,138,836	7,386,297	7,292,997	7,844,543	7,893,356
1901	8,266,601	9,055,112	8,260,895	6,914,082	6,580,172	7,183,342	7,263,332	6,766,772	6,514,839	6,183,286	5,728,730	6,097,726	7,059,651
1902	6,171,220	6,114,804	5,651,749	5,446,046	5,797,401	6,217,117	6,083,104	5,963,772	5,461,552	5,107,818	4,771,831	5,069,016	5,729,353
1903	6,160,966	6,054,616	5,115,198	5,147,423	5,581,932	5,124,402	5,563,775	5,018,208	4,936,024	4,809,438	4,613,355	5,112,584	5,466,853
1904	6,655,276	7,188,622	5,554,904	4,791,851	5,220,707	5,562,331	5,576,895	5,136,152	5,117,024	4,940,175	4,580,887	5,257,570	5,485,323
1905	5,777,996	6,857,608	5,525,104	5,316,825	5,283,217	5,152,313	5,555,263	5,819,150	5,025,355	5,447,880	4,984,101	5,234,570	5,464,202
1906	4,834,565	5,142,265	5,001,817	4,950,731	5,025,778	5,074,773	5,391,923	5,440,761	5,186,986	4,980,724	4,398,152	5,034,570	5,176,420
1907	5,812,515	6,967,163	5,996,990	5,089,614	5,485,391	5,640,334	5,674,592	6,046,145	5,414,610	5,198,264	4,392,552	5,587,574	5,083,856
1908	4,892,197	6,303,981	5,126,110	4,847,459	4,879,046	5,597,233	6,130,861	6,027,142	5,210,566	4,980,724	4,392,552	5,587,574	5,083,856
1909	4,904,704	5,025,674	4,781,957	4,846,081	4,947,820	5,504,361	6,114,545	6,167,967	5,470,110	5,037,479	4,754,752	5,000,414	5,250,367
1910	5,527,816	5,380,827	5,110,820	5,144,907	5,188,944	5,317,145	6,917,779	6,167,967	5,563,421	5,234,485	4,754,752	5,000,414	5,250,367
1911	5,358,997	5,432,082	5,298,391	5,246,301	5,134,973	6,040,921	6,917,779	6,167,967	5,563,421	5,234,485	4,754,752	5,000,414	5,250,367
1912	4,866,972	5,359,348	5,024,197	4,944,870	5,370,378	6,882,636	6,169,713	6,827,676	4,978,553	5,700,277	5,203,420	4,917,829	5,369,495
1913	6,355,604	5,735,824	5,697,707	5,109,164	5,924,982	6,720,431	6,172,412	5,837,250	5,438,211	5,051,931	5,155,822	5,308,103	5,983,614
1914	5,573,201	5,494,049	5,263,766	5,097,067	5,129,916	5,551,194	5,193,378	5,253,356	6,133,417	5,516,235	5,805,068	5,380,197	5,427,382
1915	5,735,258	5,899,397	6,084,883	5,873,072	5,883,830	6,069,636	6,302,772	6,258,356	6,496,882	6,154,058	5,805,068	5,380,197	5,427,382
1916	6,430,319	6,311,904	6,160,332	5,976,292	6,150,601	6,069,636	6,302,772	6,258,356	6,496,882	6,154,058	5,805,068	5,380,197	5,427,382
1917	8,269,875	8,429,037	7,087,500	6,696,851	7,947,023	8,093,050	7,249,137	7,678,877	7,437,192	6,603,899	6,325,124	7,891,381	6,479,729
1918	7,150,759	7,934,037	6,621,779	6,748,217	6,933,584	7,711,612	7,389,991	8,335,100	7,437,192	6,603,899	6,325,124	7,891,381	6,479,729
1919	7,973,696	8,163,698	7,599,951	6,905,508	7,060,494	7,527,035	6,911,813	7,375,527	6,370,626	6,061,116	5,615,542	6,699,039	6,711,721
1920	6,082,671	6,343,183	6,193,266	6,225,068	6,546,592	7,171,369	7,187,197	7,054,940	6,169,907	6,131,189	5,961,111	6,159,406	6,537,036

SUMMARY OF STATISTICS

FOR THE YEAR ENDING DECEMBER 31, 1921

In form recommended by the New England Water Works
Association

LOWELL WATER WORKS

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS

GENERAL STATISTICS

Population by census of 1920, 112,759.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1919.

By whom owned? The City of Lowell.

Source of supply: Two hundred ten (210) driven wells in the valley of River Meadow
Brook, and five hundred fifty-five (555) driven wells at Pawtucket Boulevard.

Mode of supply: Pumping to reservoir and pumping direct.

PUMPING STATISTICS

1. Builders of Pumping Machinery.

AT WEST SIXTH STREET STATION

One engine, capacity 5,000,000 gallons in twenty-four hours, Henry R. Worthington.

One engine, capacity 8,000,000 gallons in twenty-four hours, Allis-Chalmers Company.

One engine, capacity 10,000,000 gallons in twenty-four hours, Worthington Pump and
Machinery Corp.One engine, capacity 1,000,000 gallons in twenty-four hours, Hayes Pump and Machinery
Co.

AT COOK WELLS STATION, TEMPORARY PUMPS

One engine, capacity 3,000,000 gallons in twenty-four hours, The Deane Steam Pump Company.

One engine, capacity 3,000,000 gallons in twenty-four hours, The Deane Steam Pump Company.

AT LOWER BOULEVARD STATION

One engine, capacity 8,000,000 gallons in twenty-four hours, The Holly Manufacturing Company.

One engine, capacity 8,000,000 gallons in twenty-four hours, The Holly Manufacturing Company.

One engine, capacity 7,000,000 gallons in twenty-four hours, The Kerr Turbine Company

One engine, capacity 10,000,000 gallons in twenty-four hours, The Kerr Turbine Company.

2. Descriptions of fuel used: $\left\{ \begin{array}{l} \text{a. Kind, Bituminous.} \\ \text{b. Brand of coal, New River.} \\ \text{c. Average price of coal per gross ton delivered, \$11.20-} \\ \text{d. Percentage of ash.} \\ \text{e. Wood, price per cord.} \end{array} \right.$

3. Coal consumed for the year, 7,385,884 lbs.

4. Pounds of wood $\div 3 =$ equivalent amount of coal.

5. Total equivalent coal consumed for the year (3) + (4) 7,385,884 pounds.
6. Total pumpage for the year, 4,728,773,801 gallons.
7. Average static head against which Low Service pumps at West Sixth Street work, 178.46 feet.

Average static head against which pump at Lower Boulevard works, 45.48 feet.

8. Average dynamic head against which pumps work:

West Sixth Street, Low Service.....	190.87
West Sixth Street, High Service.....	52.99
Lower Boulevard.....	56.91
9. Number of gallons pumped per pound of equivalent coal (5) = 641.
10. Cost of pumping per million gallons, figured on pumping station expenses, viz., \$81,174.42, \$17.17.
11. Cost of purifying per million gallons, figured on filter expenses, viz., \$15,079.74, \$6.52+.

STATISTICS OF CONSUMPTION OF WATER

1. Estimated total population at date, 112,759.
2. Estimated population on lines of pipe, 112,759.
3. Estimated population supplied, 112,759.
4. Total consumption for the year, 2,386,018,085 gallons.
5. Passed through meters, 1,358,955,750 gallons.
6. Percentage of consumption metered, 56.95.
7. Average daily consumption, 6,537,036 gallons.
8. Gallons per day to each inhabitant, 57.97.
9. Gallons per day to each consumer, 57.97.
10. Gallons per day to each tap, 448.26.
11. Cost of supplying water per million gallons, figured on total maintenance, \$105.67
12. Total cost of supplying water per million gallons, figured on total maintenance and interest on bonds, \$112.13.

STATISTICS RELATING TO DISTRIBUTION SYSTEM

Mains

1. Kind of pipe, cast iron.
 2. Sizes, 4 inches to 30 inches.
 3. Extended 6,122.3 feet during the year.
 4. Total now in use, 163.03 miles.
 5. Length of pipe less than 4 inches diameter, $4\frac{1}{2}$ miles, more or less.
 6. Number of hydrants added during the year (public and private), 15.
 7. Number of hydrants (public and private) now in use, 1,481.
 8. Number of stop gates added during the year, 50.
 9. Number of stop gates now in use, 2,220.
 10. Number of stop gates smaller than 4 inches, 56.
 11. Number of blow-offs, 33.
 12. Range of pressure on mains, 27 lbs. to 82 lbs. Low Service.
-

SERVICES

13. Kind of pipe, lead, lead-lined iron, iron and tin-lined iron.
14. Sizes, $\frac{5}{8}$ in. to 8 in.
15. Extended, 9,164 feet.
16. Total now in use, 110.98 miles.
17. Number of Service Taps added during the year, 190.
18. Number now in use, 14,583.
19. Average length of service, 40.19 feet.
20. Average cost of service for the year, \$70.23.
21. Number of meters added, 232.
22. Number now in use, 12,939.
23. Percentage of services metered, 88.7%.
24. Percentage of receipts from metered water, 96.17%.

During the month of July a Centrifugal Steam Turbine, made by the Hayes Pump & Machinery Co., was installed at the West Sixth Street Station for the High Service System, at a cost of \$2,148.00 for pump and connections, previous to which two small boiler feed pumps were used for this purpose, running day and night, making the cost of High Service Pumpage much greater than usual.

The new Horizontal Cross-Compound Fly Wheel condensing pumping engine made by the Worthington Pump and Machinery Corporation, successors to the Snow Pump Works, of Buffalo, New York, at a cost of \$62,901.84 for pump, foundation and connections, was finally set up, and received its official Duty Trial on June 17, 1921, under the direction of Mr. John A. Stevens. The engine was found to meet the requirements of the contract. It replaces the Worthington 10,000,000 gallon High Duty Pump, which was incapacitated for service and was removed during the year 1917.

Respectfully submitted,

STEPHEN KEARNEY,

City Engineer.

ANNUAL REPORT
OF THE
Births, Marriages
and Deaths
OF THE
CITY OF LOWELL



FOR THE YEAR

1921

CITY OF LOWELL

OFFICE OF THE CITY CLERK, May 11, 1922

To the Mayor and City Council:

The annual report of Births, Marriages and Deaths for the year 1921, as of record in the office of the City Clerk, is respectfully submitted as follows:

BIRTHS										
By Wards	1	2	3	4	5	6	7	8	9	Total
Whole Number	210	453	328	299	269	739	278	247	228	3051
Males	108	251	184	143	153	365	149	125	106	1584
Females	102	202	144	156	116	374	129	122	122	1467
American Parents	95	76	176	90	88	231	124	141	125	1146
Foreign Parents	67	340	85	174	139	282	86	49	52	1274
American Father Foreign Mother	22	17	32	15	16	107	39	28	25	301
Foreign Father American Mother	26	20	35	20	26	119	29	29	26	330
Twins	5	2	1	4	2	11	3		2	30
Triplets		1				1				2

In addition, 110 births are recorded, the parents being residents elsewhere, and 45 births occurring elsewhere the parents being Lowell residents. Still-births not included 140.

MARRIAGES

Eleven hundred and fifty-five marriages were recorded in the year 1921, nine hundred and seventy-eight of which were solemnized in Lowell and one hundred and seventy-seven solemnized elsewhere.

MARRIAGES BY MONTHS

January.....	83	May.....	86	September.....	137
February.....	58	June.....	166	October.....	152
March.....	55	July.....	66	November.....	114
April.....	92	August.....	83	December.....	63

NATIONALITY OF CONTRACTING PARTIES

	Grooms	Brides
United States.....	704	728
Canada.....	139	138
Greece.....	71	64
Russia, Poland and Austria.....	56	47
Ireland.....	40	50
Portugal, Azores and Maderia.....	45	40
England.....	24	30
Armenia.....	25	21
Italy.....	17	11
Scotland.....	6	7
Sweden.....	5	1
Other Countries.....	23	18

DEATHS

The number of deaths in the city returned and recorded in 1921, exclusive of still-births, was 1470; males 720; females 750; sixty-nine of this number being non-residents. The deaths of 137 residents who died elsewhere being also recorded. Still-births 140.

Detailed statistics relative to deaths are contained in Report of Board of Health.

Very respectfully,

STEPHEN FLYNN,

City Clerk.

In City Council, May 11, 1922.

Read, accepted, and ordered on file.

STEPHEN FLYNN, City Clerk.

FORTY-FOURTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF LOWELL



FOR THE YEAR

1921

ORGANIZATION 1921

BOARD OF HEALTH

PIERRE BRUNELLE, M. D., Chairman

THOMAS F. CARROLL, M. D.

JOHN E. DRURY

HEALTH DEPARTMENT OFFICERS

Office Employees

FRANCIS J. O'HARE, Agent

SPENCER D. BROWN, Fumigator

JOHN N. DRURY, M. D., Tuberculosis Examining Physician

WILLIAM A. JOHNSON, M. D., Vaccinating Physician

HAROLD L. LELAND, M. D., Attending Physician G. U. Clinic

JAMES Y. RODGER, M. D., Bacteriologist

BERTHA M. KIRWIN, R. N., Tuberculosis Nurse

GRACE M. CARROLL, R. N., Tuberculosis Nurse

ALICE I. GORMAN, R. N., Child Welfare Nurse

PAULINE J. PICARD, R. N., Child Welfare Nurse

HELEN V. TOMPKINS, R. N., Child Welfare Nurse

CATHERINE J. SULLIVAN, R. N., Child Welfare Nurse

MARY A. LYNCH, R. N., Nurse at G. U. Clinic

LOIS A. TITCOMB, R. N., Nurse at G. U. Clinic

KATHARINE W. SNOW, Registrar

NAPOLEON MILOT, Nurse at G. U. Clinic

INSPECTORS

WILLIAM H. CONNORS, General Inspector

CHARLES N. MIDWOOD, Plumbing Inspector

WILLIAM F. RYAN, Plumbing Inspector

CLEMENT A. HAMBLET, M. D. V., Inspector of Meats and Provisions

JOHN KEARNEY, Health Inspector

MILK DEPARTMENT

MELVIN F. MASTER, B. S., Milk Inspector

JOHN J. COUGHLIN, Collector of Samples

PRIVATE SCHOOL PHYSICIANS

HOWARD W. JEWETT, M. D., succeeded by

HAROLD B. PLUNKETT, M. D.

RODRIGUE MIGNAULT, M. D.

FREDERICK P. MURPHY, M. D.

RALPH C. STEWART, M. D.

LOWELL, MASS., Jan. 1st, 1922.

*To the Honorable Mayor and Members of the Municipal
Council of the City of Lowell, Massachusetts.*

GENTLEMEN :—

The fourty-fourth annual report of the Board of Health, with a statement of the cost, is respectfully submitted.

It is very gratifying to say that the general death rate for the year 1921 was lower than any year since the city was incorporated.

The number of deaths during the year was 1469, a mortality of 13.02 per 1000 of the population. These figures included deaths of non-residents, but excludes still births.

There was a marked decrease in the deaths of infants under one year, the total being two hundred and eighty-six (286) compared with four hundred and twenty (420) in 1920.

SCARLET FEVER.

There were 50 cases of this disease with no deaths.

DIPHTHERIA.

There were 263 cases of this disease during the year. Thirty-five of the cases died, a mortality rate of 13.3. Many of these fatal cases might have been saved, had a physician been called earlier.

TUBERCULOSIS.

There were 249 cases of this disease reported during the year. Eighty-five deaths were recorded. This shows a marked decrease from the previous year, during which 268 cases were reported and 111 deaths recorded.

The members wish to express their appreciation to the heads of the various departments for the assistance rendered during the year, and to the Anti-Tuberculosis Association, Lowell Guild and other public health agencies for the excellent services rendered by them.

Respectfully submitted,

PIERRE BRUNELLE, M. D., Chairman,

THOMAS F. CARROLL, M. D.,

JOHN E. DRURY,

Board of Health.

REPORT OF WORK DONE BY BACTERIOLOGICAL LABORATORY DURING YEAR 1921

LOWELL, MASS., Jan. 1, 1922

Board of Health,

Lowell, Mass.

GENTLEMEN:—

I have the honor to submit a report of the work done by me in the Bacteriological Laboratory during the year 1921:

DIPHTHERIA

Examination of Cultures

	For Diagnosis		For Release		No	Whole
	Positive	Negative	Positive	Negative	Result	Number
January	27	163	7	66	2	265
February	8	107	1	21	2	139
March	30	79	5	28	8	150
April	19	66	2	32	1	120
May	8	56	2	20	2	88
June	18	59	3	25	2	107
July	26	41	24	11	0	102
August	8	61	0	31	4	104
September	6	71	1	7	1	86
October	14	79	1	12	4	110
November	23	117	5	36	7	188
December	18	77	1	31	7	134
	205	976	52	320	40	1593

TUBERCULOSIS

Examinations of Specimens of Sputum

	Positive	Negative	No Result	Total
January	9	38	2	49
February	12	37	0	49
March	11	58	0	69
April	16	52	0	68
May	13	33	2	48
June	8	32	1	41
July	0	24	0	24
August	12	34	0	46
September	7	23	0	30
October	15	13	0	28
November	6	25	3	34
December	11	31	0	42
	<hr/> 120	<hr/> 400	<hr/> 8	<hr/> 528

TYPHOID FEVER

Examination of Blood for Widal Reaction

	Positive	Negative	No Result	Diazo Reaction	Total
January	1	6	0	0	7
February	1	9	0	0	10
March	0	1	0	0	1
April	0	13	0	0	13
May	1	4	0	0	5
June	2	11	0	0	13
July	2	9	0	2	13
August	1	15	0	0	16
September	2	8	0	0	10
October	5	10	0	0	15
November	0	2	0	0	2
December	0	2	0	0	2
	<hr/> 15	<hr/> 90	<hr/> 0	<hr/> 2	<hr/> 107

CEREBRO-SPINAL MENINGITIS

There were two examinations made, one of which was positive and the other negative.

GONORRHOEA

Ninety-six examinations were made, 19 of which were positive and 77 negative.

Five Neisser examinations were made, two of which were positive and three negative.

One test was made for Vincent's Angina, which was negative.

General examinations were made in two cases of such materials as pus and urine.

Respectfully submitted,

JAMES Y. RODGER, M. D.,

Bacteriologist.

REPORT OF INSPECTOR OF MILK AND VINEGAR.

To the Lowell Board of Health.

GENTLEMEN :—

I have the honor to present the report of the Department of Milk, Vinegar and Oleomargarine for the twelve months beginning Jan. 1st, 1921.

4099 Samples of Milk,

17 Samples of Vinegar,

6 Samples of Butter,

46 Samples of Ice Cream, were analyzed.

1634 Samples of Milk were tested for sediment. Bacterial examinations were made on 209 samples of milk.

36 Train inspections were made.

269 Letters of warning were sent for minor violations of the milk laws.

558 Stores were licensed to sell milk, and

62 Stores were licensed to sell oleomargarine.

\$318:50 were received for licenses, and paid to the City Treasurer during the year.

31 Prosecutions resulted in 24 convictions and fines from \$1.00 to \$50, totalling \$305.00.

9 Applications for wagon licenses and 5 applications for permits to sell milk in Lowell were refused during the year.

The milk for 1921 came from the same sources as in 1920.

Respectfully submitted,

MELVIN F. MASTER, B. S.,

Inspector of Milk and Vinegar.

REPORT OF EXAMINING PHYSICIAN FOR THE TUBERCULOSIS CLINIC

LOWELL, MASS., Jan. 1, 1922

*To the Members of the Board of Health,
Lowell, Mass.*

GENTLEMEN :—

I have the honor to submit a report of the work done by me as Examining Physician from Jan. 1 to Dec. 31, 1921:

Number of cases examined.....	480
New cases	195
Old cases	285
Incipient cases	12
Moderately advanced cases.....	48
Advanced cases	38
Arrested cases	29
Other forms	6
Contact cases	40
Non-tubercular cases	134
Cases moved out of town.....	12

Yours respectfully,

JOHN N. DRURY, M. D.,

Examining Physician.

REPORT OF TUBERCULOSIS NURSES.

LOWELL, MASS., Jan. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN:—

Following is a report of work done by me as Tuberculosis Nurse for the Health Department from Jan. 1st, 1921, to July 16, 1921:

Number of cases examined.....	206
New cases	94
Old cases	112
Incipient cases	10
Moderately advanced cases.....	28
Advanced cases	36
Exposed cases	10
Arrested cases	23
Non-tubercular cases	99
Number of visits made	1324
Number of cases at the following Sanatoria:	
Chelmsford Street Hospital.....	1
Lowell Isolation Hospital.....	80
Lawrence Tuberculosis Hospital.....	1
Lakeville State Sanatorium.....	5
North Reading State Sanatorium.....	5
Rutland State Sanatorium	2
Tewksbury State Infirmary	8
Westfield State Sanatorium.....	8
Number of deaths from Tuberculosis.....	49
Number of deaths (under supervision).....	35
Number of deaths (not under supervision).....	20
Number of deaths (other forms of Tuberculosis).....	14

In addition I assisted as clerk at the Genito-Urinary Clinic twice a week.

Respectfully submitted,

BERTHA M. KIRWIN, R. N.,

Tuberculosis Nurse.

LOWELL, MASS., Jan. 1, 1922.

Board of Health,

Lowell, Mass.

GENTLEMEN:—

Following is a report of the work done by me from July, 1921, to Dec. 31, 1921, as Tuberculosis Nurse for the Health Department:

Number of cases examined at Clinic.....	274
Old Cases Examined.....	173
New Cases Examined.....	101
Incipient Cases	2
Moderately Advanced Cases.....	20
Advanced Cases	2
Arrested Cases	6
Other forms of Tuberculosis.....	6
Contact Cases	30
Non-tubercular Cases	35
Cases Moved Out of Town.....	12

Number of Cases at the following Sanatoria:

Chelmsford Street Hospital.....	1
Lowell Isolation Hospital.....	35
Lawrence Tuberculosis Hospital.....	3
Lakeville State Sanatorium.....	4
North Reading State Sanatorium.....	4
Rutland State Sanatorium.....	3
Tewksbury State Infirmiry	24
Westfield State Sanatorium	10

U. S. Public Health Hospitals:

Groton	4
Camp Meade	1
Essex County Hospital	1
Glen Rock	1
Mt. Madison Sanatorium	2
New Haven, Conn.	1
Norfolk County Hospital	1
Oxford Springs	2
Parker Hill	5
Number of visits made during 6 months	620
Baby Welfare visits	18
Ophthalmia cases	1
Contagious disease cases	2

I also assisted at Tuberculosis Clinics twice a week, State Tuberculosis Clinic once a month, and Genito-Urinary Clinic once a week.

Respectfully submitted,

GRACE M. CARROLL, R. N.,

Tuberculosis Nurse.

REPORT OF CHILD WELFARE NURSE.

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass*

GENTLEMEN :—

Following is a report of the visits made by me from Jan. 1st, 1921, to July 1st, 1921 :—

Postnatal visits	376
Postnatal revisits	341
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Total	717
Ophthalmia Neonatorum cases	5
Revisits to Neonatorum	18
Weak Eyes	17
Trachoma cases	2
Contagious Diseases	3
Referred to Lowell Guild.....	20
Deaths—Stillbirths	12
1920 births	13
1921 births	7

I also assisted at the Tuberculosis and the G. U. Clinics.

Respectfully submitted,

LOIS A. TITCOMB, R. N.

REPORT OF CHILD WELFARE NURSE.

LOWELL, MASS., JAN. 1, 1922

*Board of Health,
Lowell, Mass.*

GENTLEMEN:—

Following is a report of the visits made by me during the year 1921:—

Number of prenatal visits.....	42
Number of postnatal visits.....	952
Number of postnatal revisits.....	1023
Total number of postnatal visits.....	1975
Number of Ophthalmia cases.....	8
Number of Ophthalmia revisits.....	60

Total number of Ophthalmia visits.....	68
Number of Diarrhœa cases.....	23
Cases referred to Lowell Guild.....	31
Cases referred to G. U. Clinic.....	1
Cases referred to Dental Clinic.....	2
Cases referred to Eye Clinic.....	2
Number of Pediculosis cases.....	2
Number of Pediculosis visits.....	7
Number of stillbirths—homes visited.....	28
Number of stillbirths—homes not visited.....	17

Total	45
Deaths—1921 births	11
Deaths—1920 births	10
Number of school children—home visits.....	5
Number of school children—cards given.....	77

(also assisted at the Tuberculosis and the G. U. Clinics.

Respectfully submitted,

PAULINE PICARD, R. N.,
Child Welfare Nurse.

REPORT OF CHILD WELFARE NURSE.

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN:—

Following is a report of work done by me as Child Welfare Nurse for the Health Department from June 28, 1921, to Dec. 31, 1921:—

Number of postnatal visits.....	568
Number of postnatal revisits.....	588
<hr/>	
Total number of revisits.....	1156
Number of Ophthalmia Neonatorum cases.....	9
Number of revisits to Ophthalmia Neonatorum cases..	88
Total number of revisits.....	97
Trachoma cases revisited.....	13
Cases referred to Lowell Guild.....	16
Cases referred to G. U. Clinic.....	1
Cases referred to Eye Clinic.....	1
Cases referred to City Physician.....	3
Cases referred to Hospital.....	1
Still births	12
Deaths	32
Premature births	5
Npmber of prenatal visits.....	7

I also assisted at the G. U. Clinic.

Respectfully submitted,

ALICE I. GORMAN, R. N.,

Child Welfare Nurse

REPORT OF CHILD WELFARE NURSE.

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN:—

Following is a report of work done by me as Child Welfare Nurse for the year 1921:—

Number of postnatal visits.....	660
Number of postnatal revisits.....	1017
Ophthalmia cases	4
Revisits to Ophthalmia cases.....	25
Weak Eyes	25
Revisits to cases of Weak Eyes.....	75
Cases referred to Dental Clinic.....	3
Cases referred to Eye Clinic.....	1
Trachoma revisits	6
Cases referred to Lowell Guild.....	11
Cases referred to Charity Department.....	2
Conjunctive cases	3
Cases referred to Tuberculosis Clinic.....	3
Stillbirths	29
Deaths	58
Premature births	8

Respectfully submitted,
HELEN V. TOMPKINS, R. N.,
Child Welfare Nurse.

REPORT OF THE ATTENDING PHYSICIAN
GENITO-URINARY CLINIC

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN:—

I have the honor to submit the following report of the work done in the Genito-Urinary Clinic during the year 1921:

The Genito-Urinary Clinic had one hundred and eighty-three cases under observation and treatment Dec. 31st, 1921, an increase of one hundred and twenty-three over the previous year. We admitted two hundred and ninety-four cases of gonorrhœa and syphilis, a decrease of three over the year 1920. Four hundred and fifty-five cases were treated during the year, an increase of ninety-eight cases over the previous year.

A comparative table of the admissions and discharges is as follows:

TABLE OF ADMISSIONS AND DISCHARGES
1920 AND 1921

	Sex	Syphilis 1921 1920		Gonorrhœa 1921 1920		Total 1921 1920		Increase over 1920	Decrease over 1920
Cases transferred	Male	79	18	27	18	106	36	70	
	Female	63	17	14	7	77	24	53	
	Total	142	35	41	25	183	60	123	
Cases admitted during year	Male	91	87	89	111	180	198		13
	Female	66	46	48	53	114	99	15	
	Total	157	133	137	164	294	297		3
Cases treated during the year	Male	142	105	143	129	285	234	51	
	Female	93	63	77	60	170	123	47	
	Total	235	168	220	189	455	357	98	
Cases discharged during year with or without permission	Male	59	35	76	80	135	115	20	
	Female	31	26	38	25	69	51	18	
	Total	90	61	114	105	204	166	38	
Cases under treatment Dec. 31st	Male	90	0	32	0	122	0		
	Female	65	0	15	0	80	0		
	Total	155	107	47	84	202	191	11	

There has been a steady increase in the male and female cases of syphilis under treatment from fifty-one and twenty-six respectively at the beginning of the year to seventy-nine and sixty-three respectively at the end of the year. The incidence of gonorrhœa showed a marked drop the middle of the summer, due partly to a change in the clerical force and the dropping of all cases which had lapsed treatment.

More laboratory examinations were performed during the past year than heretofore. Of forty-one dark field examinations for *spirocheta pallida* nineteen were positive. Six hundred and fifty-one Blood Wassermann tests were made. One hundred and sixty spinal fluids were examined, many of the cases being neuro-syphilis. A total of eighteen hundred and fifty-three laboratory examinations were made during the year, as shown by the following table:

TABLE 2
TABLE OF LABORATORY EXAMINATIONS
1920 AND 1921

	SEX	Posi- tive 1921	Posi- tive 1920	Nega- tive 1921	Nega- tive 1920	Total 1921	Total 1920	Increase over 1920	Decrease since 1920
Syphilis									
Dark Field Examina- tions for Treponema Pallida									
	Male	9	0	20	1	29	7	22	
	Female	8	0	4	1	12	1	11	
	Total	17	0	24	2	41	8	33	
Blood Wassermann Tests, Diagnosis and Treatment control ..									
	Male	124	90	293	204	417	294	123	
	Female	90	46	145	140	235	186	49	
	Total	214	136	438	344	652	480	172	
Spinal fluid examina- tions, including spin- al fluid Wassermann, Cell Count, Globulin, Albumen and Gold Sol Reaction									
	Male	0	0	0	0	108	0	0	
	Female	0	0	0	0	52	0	0	
	Total	0	0	0	0	160	121	39	
Gonorrhœa									
Gonococcic Fixation Tests, diagnosis and treatment control ..									
	Male	0	0	0	0	417	294	123	
	Female	0	0	0	0	235	186	49	
	Total	0	0	0	0	652	480	172	
Gonococcic Smean Ex- aminations, diagnosis and treatment control									
	Male	70	0	85	0	155	0	0	
	Female	61	0	132	0	193	0	0	
	Total	131	0	217	0	348	739	0	391
Total Syphilitis Ex- aminations									
	Male	0	0	0	0	554			
	Female	0	0	0	0	299			
	Total	0	0	0	0	853	609	244	
Total Gonorrhœa Ex- aminations									
	Male	0	0	0	0	572			
	Female	0	0	0	0	428			
	Total	0	0	0	0	1000	1219		219
Total Laboratory Ex- aminations									
						1853	1708	145	

Treatments showed a gradual increase from four hundred in January to four hundred and seventy-five in December. Eleven hundred and six arsphenamine treatments were administered. The total treatments were four thousand nine hundred and fifty-two, an increase of one thousand four hundred and forty-three over last year. A comparison of treatments of 1921 and 1920 is shown by the following table:

TABLE 3
TABLE OF TREATMENTS 1920 AND 1921

	1921	1920	Increase since 1920	Decrease since 1920
Arsphenamine treatments at clinic	986	757	229	
Arsphenamine treatments at time of lum- bar puncture at Lowell Venereal Hos- pital	120	80	40	
Total Arsphenamine treatments	1106	837	269	
Total treatments at clinic	4832	3429	1403	
Total treatments at clinic and hospital .	4952	3509	1443	
Total therapeutic procedures Laboratory Examinations plus treatments	6965	5117	1848	

With additional clerical assistance we have been able to follow up our lapsed cases much better with corresponding improvement in the results obtained. The Lowell General Hospital now furnishes us one nurse at our Women's Clinic, assisting the Board of Health nurses, who can devote more time to the clerical work.

Our maximum attendance in the men's clinic has been seventy patients at one clinic, in the women's fifty. Our quarters are far from adequate to handle this volume of work, additional personnel only adds to the overcrowding.

We are as yet only able to do follow-up work in lapsed cases. It is hoped that we may be able to make Social Service visits to the families of those needing the same, to wit, we treat a child for congenital syphilis, while the father and mother do not come to the clinic, but remain at home, untreated, to produce further syphilitic progeny.

Respectfully submitted,

HAROLD L. LELAND, M. D.,

Attending Physician, Genito-Urinary Clinic.

REPORT OF PLUMBING INSPECTORS.

 LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN :—

Following is a report of the plumbing work done for the year ending Dec. 31, 1921:—

Whole umber of pplications for permits to do plumbing.....	1063
New Houses	204
Old Houses	859
<hr/>	
Total visits	6094
Inspections	4501
Tests	1593

Two prosecutions for doing plumbing without permit.

Respectfully submitted,

CHARLES N. MIDWOOD,

WILLIAM I. RYAN,

Plumbing Inspectors.

Notices to abate the following nuisances were sent from this office during the year 1921:—

Clogged sink waste pipes.....	5
Clogged drains	8
Clogged toilets	4
Clogged catch basins.....	1
Leaky sink waste pipes.....	10
Leaky toilet tanks.....	1
Leaky toilets	10
Leaky roofs	4
Untrapped sinks	4
Untrapped refrigerators	2
Open back vent connections	3
Hens removed	3
Piges removed	10
Rubbish in yards.....	78
Rubbish in cellars.....	22
No water supply to toilets.....	11
No water supply to sinks.....	1
No water supply to tenements.....	1
Plaster off ceilings.....	1
Dilapidated woodwork around toilets.....	4
Open drains	2
Insuffienent supply of water to toilets.....	3
Filthy water closet compartments.....	2
Contents of dry wells overflowing.....	4
Manure in yard	3
Broken and leaky toilet bowls.....	2
House drain connected with street sewers.....	2
Unsealed sink traps.....	2
Clogged ash chutes	2
Broken sinks	2
Contents of privy vaults removed.....	4
Rubbish on piazzas.....	2
Rubbish in sheds	1
Permission granted to remove the contents of privy vaults	4

There were 2714 vaccinations during the year.

REPORT OF FUMIGATOR.

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN :—

Following is a report of the fumigating work done by me during the year 1921:—

Number of houses fumigated.....	402
Number of rooms fumigated.....	717
Tuberculosis cases	69
Cerebro-spinal meningitis cases	2
Cancer cases	2
Infantile paralysis cases.....	1

Respectfully submitted,

SPENCER D. BROWN,

Fumigator.

REPORT OF INSPECTOR OF MEATS AND PROVISIONS

LOWELL, MASS., JAN. 1, 1922.

*Board of Health,
Lowell, Mass.*

GENTLEMEN :—

The following is a report of work done by me during the year 1921 :—

Number of inspections made of stores.....	3101
Number of pounds salt spare ribs condemned as unfit for food	900
Number of pounds of beef condemned as unfit for food.....	221½
Number of pounds of pork condemned as unfit for food.....	147
Number of pounds of lamb condemned as unfit for food.....	50
Number of pounds of fowl condemned as unfit for food.....	7
Number of swine inspected at time of slaughter.....	218
Number of swine condemned at time of slaughter (Tuberculosis)	1

Respectfully submitted,

C. A. HAMBLET, M. D. V.,
Inspector of Meats and Provisions.

CASES OF CONTAGIOUS DISEASE REPORTED

	1921	1920	1919	1918
Diphtheria	263	254	234	438
Scarlet Fever	50	221	327	99
Measles	731	1376	168	501
Typhoid Fever	27	27	31	21
Smallpox	0	1	1	2
Cerebro-Spinal Meningitis	4	11	8	19
Infantile Paralysis	1	14	8	7
Tuberculosis	249	268	288	256
Influenza	2	1236	1004	7394

DEATHS FROM CONTAGIOUS DISEASES

	1921	1920	1919	1918
Diphtheria	35	20	23	17
Scarlet Fever	0	1	6	4
Measles	6	26	4	8
Typhoid Fever	6	3	4	2
Smallpox	0	0	0	0
Cerebro-Spinal Meningitis	4	6	6	9
Infantile Paralysis	0	5	3	5
Tuberculosis	85	111	143	182
Influenza	1	21	27	164

CASES OF DIPHTHERIA REPORTED TO THE
BOARD OF HEALTH 1921

	Cases Reported	Deaths
January	44	9
February	15	1
March	30	6
April	20	1
May	14	1
June	18	0
July	30	3
August	10	1
September	9	4
October	25	4
November	31	4
December	17	1
	<hr/>	<hr/>
	263	35

MORTALITY OF DIPHTHERIA

Mortality of Diphtheria 13.3 per cent.

	1894	33.0 per cent.
Antitoxin Treatment	1895	44.0
	1896	43.0
	1897	23.0
	1898	23.0
	1899	18.0
	1900	10.0
	1901	12.0
	1902	9.5
	1903	10.5
	1904	11.0
	1905	6.0
	1906	9.0
	1907	7.5
	1908	7.0
	1909	12.5
	1910	9.2
	1911	9.7
	1912	10.4
	1913	9.9
	1914	16.3
	1915	10.6
	1916	13.3
	1917	5.5
	1918	9.1
	1919	9.8
	1920	7.9
	1921	13.3

SCARLET FEVER

	1921	1920	1919
Cases reported	50	221	327
Deaths reported	0	1	6
Per cent. total cases.....	0	0.4	1.8

	Cases	
	Reported	Deaths
January	7	0
February	7	0
March	6	0
April	5	0
May	5	0
June	1	0
July	4	0
August	1	0
September	0	0
October	6	0
November	4	0
December	4	0
	<hr/> 50	<hr/> 0

MEASLES

	Cases Reported	Deaths
January	320	4
February	199	1
March	165	0
April	26	0
May	7	1
June	2	0
July	0	0
August	2	0
September	0	0
October	3	0
November	2	0
December	5	0
	<hr/> 731	<hr/> 6

INFANTILE PARALYSIS

	Cases Reported	Deaths
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	1	0
October	0	0
November	0	0
December	0	0
	<hr/>	<hr/>
	1	0

CEREBRO-SPINAL MENINGITIS

	Cases Reported	Deaths
January	0	0
February	1	1
March	0	0
April	0	0
May	1	1
June	0	1
July	0	0
August	1	1
September	0	0
October	1	1
November	0	0
December	0	0
	<hr/>	<hr/>
	4	4

TUBERCULOSIS

	Cases Reported	Deaths
January	30	11
February	33	15
March	17	7
April	22	8
May	18	8
June	18	5
July	16	3
August	19	4
September	30	3
October	13	7
November	22	8
December	11	6
	<hr/> 249	<hr/> 85

TYPHOID FEVER

	Cases Reported	Cases
January	3	1
February	4	0
March	3	0
April	0	0
May	1	1
June	2	1
July	1	1
August	3	0
September	7	1
October	3	1
November	0	0
December	0	0
	<hr/> 27	<hr/> 6

TYPHOID FEVER

	Population	Cases Reported	Deaths
Total 1921	112,759	27	6
Total 1920	112,759	27	3
Total 1919	107,978	31	4
Total 1918	107,978	21	2
Total 1917	107,978	37	7
Total 1916	107,978	61	13
Total 1915	106,294	112	18
Total 1914	106,294	85	11
Total 1913	106,294	65	11
Total 1912	106,294	86	10
Total 1911	106,294	61	7
Total 1910	106,294	186	22
Total 1909	96,380	91	11
Total 1908	96,380	188	24
Total 1907	96,380	73	9
Total 1906	96,380	30	7
Total 1905	94,889	56	17
Total 1904	104,402	48	17
Total 1903	101,959	238	26
Total 1902	99,574	83	16
Total 1901	94,969	70	18
Total 1900	94,969	85	17
Total 1899	90,114	57	17
Total 1898	87,000	119	24
Total 1897	87,000	105	18
Total 1896	95,700	178	36
Total 1895	84,359	172	33
Total 1894	83,026	282	50
Total 1893	81,694	160	53
Total 1892	80,361	373	75
Total 1891	79,029	293	77
Total 1890	77,696	454	123

A decrease from 1.59 per thousand inhabitants to .05 in thirty-two years.

VITAL STATISTICS

	1921	1920	1991
Deaths, male	720	893	828
Deaths, female	749	877	881
	1469	1770	1709
Children under 1 year.....	286	426	377
Children under 2 years.....	328	531	435
Children under 5 years.....	390	587	515
Per cent. of total deaths under 5 years..	26.5	33.2	30.0

BIRTHPLACES

	Of Deceased	Of Parents
Lowell	592	237
Massachusetts	122	156
Other States	202	416
Ireland	196	707
Canada	180	563
Great Britain	87	225
Other Countries	77	450
Unknown	13	184
	1469	2938

PLACES OF INTERMENT

St. Patrick's Cemetery.....	636
Edson	199
Westlawn	133
Lowell	45
St. Joseph's	318
St. Peter's	0
Other Cemeteries	7
Removed from City.....	131

1469

PLACES OF DEATH

Ward 1	94
Ward 2	116
Ward 3	135
Ward 4	96
Ward 5	83
Ward 6	239
Ward 7	109
Ward 8	112
Ward 9	109
Chelmsford Street Hospital.....	76
Lowell Hospital	76
Lowell General Hospital.....	74
St. John's Hospital.....	116
Lowell Isolation Hospital.....	20
Shaw Hospital	12
Cheney-Allard Hospital	2

1469

DEATH RATE

Population, census	1890	77,696	1,959	25.21
estimated	1891	79,029	1,972	24.95
estimated	1892	80,361	2,224	27.67
estimated	1893	81,694	2,094	25.62
estimated	1894	83,026	1,775	21.28
census	1895	84,359	1,857	22.01
estimated	1896	85,700	1,901	22.18
estimated	1897	87,000	1,855	21.33
estimated	1898	87,000	1,808	20.78
estimated	1899	90,114	1,848	20.50
census	1900	94,969	1,849	19.47
estimated	1901	94,969	2,038	21.45
estimated	1902	99,574	1,935	19.43
estimated	1903	101,959	1,898	18.61
estimated	1904	104,402	1,736	16.61
census	1905	94,889	1,899	20.02
census	1906	96,380	1,918	19.90
census	1907	96,380	2,063	21.40
census	1908	96,380	1,963	20.36
census	1909	96,380	1,885	19.55
census	1910	106,294	2,100	19.76
census	1911	106,294	1,925	18.11
census	1912	106,294	1,891	17.79
census	1913	106,294	1,749	16.45
census	1914	106,294	1,768	16.63
census	1915	106,294	1,820	17.12
census	1916	107,978	1,964	18.19
census	1917	107,978	1,938	17.95
census	1918	107,978	2,473	22.90
census	1919	107,978	1,709	15.82
census	1920	112,759	1,770	15.69
census	1921	112,759	1,469	13.02

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CAUSES OF DEATH

CAUSES OF DEATH	Total for 1921	AGE																				SEX						
																						Males	Females					
		Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years			75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over	
General Diseases—Continued																												
28. Tuberculosis of the lungs.	60	1	...	1	...	1	4	5	4	10	7	10	5	5	4	2	0	2	0	36	24
29. Acute military tuberculosis	3	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	2
30. Tuberculous meningitis ..	19	7	2	1	1	2	13	3	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	9	10
31. Abdominal tuberculosis ..	1	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
32. Pott's disease .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33. White swellings	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34. Tuberculosis of other organs	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...
35. Disseminated tuberculosis.	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
36. Rickets .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37. Syphilis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38. Gonococcus infection .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39. Cancer and other malignant tumors of the buccal cavity	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	1	2
40. Cancer and other malignant tumors of the stomach and liver	43	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	3	6	7	8	8	4	3	...	...	21	22

CAUSES OF DEATH	Total for 1921	AGE																SEX										
																		Males	Females									
		Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over			
General Diseases—Continued																												
41. Cancer and other malignant tumors of the peritoneum, intestines and rectum...	8											1					2	1	2		1	1					1	7
42. Cancer and other malignant tumors of the genital organs of the female,	16												1	1	3	2	2	1	1	4		1	1	1			1	15
43. Cancer and other malignant tumors of the breast. . . .	10											1					1	2	2	2	1		1					10
44. Cancer and other malignant tumors of the skin.	3																1	1	1								1	2
45. Cancer and other malignant tumors of organs not specified	26														1	1	1	6	2	5	5	2	2				17	9
46. Other tumors (tumors of the female genital organs excepted)	1													1														1
47. Rheumatism, acute, articular	3								1	1													1				2	1
48. Rheumatism, chronic and gout																												
49. Scurvy																												
50. Diabetes	17								1						1	3	3	2	5		1	1	1				4	13

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CAUSES OF DEATH	Total for 1921	AGE																	SEX								
																			Males	Females							
		Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over		
Diseases of the Nervous System and of the Organs of Special Sense—Continued																											
70. Convulsions (non-puerperal 5 years and over)....	2							1	1																	1	1
71. Convulsions of infants (under 5 years of age)....	7	5	2			7																				3	4
72. Chorea																											
73. Neuralgia and neuritis...																											
74. Other affections of the nervous system	2		1			1										1										1	1
75. Diseases of the eye and their annexa																											
76. Diseases of the ears....																											
Total of the nervous system, etc.	139	10	4	2	1	3	20	3	3	1	1	2	2	2	3	4	7	13	14	19	22	13	10	2		69	70
III. Diseases of the Circulatory Apparatus																											
77. Pericarditis																											
78. Endocarditis, acute	79		2			2	5	3	4	2	2	2	2	4	7	5	8	5	10	8	9	5	1		1	39	40

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CAUSES OF DEATH

	Total	Under 1 year	1 year and under 2	2 years and under 3	3 years and under 4	4 years and under 5	Total under 5 years	5 years and under 10	10 years and under 15	15 years and under 20	20 years and under 25	25 years and under 30	30 years and under 35	35 years and under 40	40 years and under 45	45 years and under 50	50 years and under 55	55 years and under 60	60 years and under 65	65 years and under 70	70 years and under 75	75 years and under 80	80 years and under 85	85 years and under 90	90 years and over	Males	Females
Diseases of the Respiratory Apparatus—Concluded																											
87. Affections of the larynx...	2	1	1	2	2
88. Affections of the thyroid body
89. Bronchitis, acute	24	17	5	22	1	1	10
90. Bronchitis, chronic	12	1	2	2	...	4	1	...	2	5
91. Broncho pneumonia	95	40	11	7	4	1	63	1	...	2	1	2	2	6	1	2	3	6	2	3	1	53
92. Pneumonia	50	2	...	2	...	1	5	4	...	...	1	2	2	1	7	5	6	2	7	3	3	...	...	...	1	24
93. Pleurisy	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
94. Pulmonary congestion and pulmonary apoplexy	6	1	...	...	...	...	1	...	...	...	...	...	...	...	3	...	1	...	...	1	...	...	...	...	...	1
95. Gangrene of the lung....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
96. Asthma	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1
97. Emphysema, pulmonary ..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2
98. Other diseases of the respiratory apparatus (phthisis excepted) ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Total respiratory apparatus	198	61	16	9	4	3	93	5	0	0	2	2	5	2	7	10	15	13	5	15	11	6	5	1	1	100	

Total for 1921

AGT

CAUSES OF DEATH

Total for 1921

Diseases of the Digestive Apparatus—Continued

109. Hernia, intestinal obstruction
110. Other diseases of the intestines
111. Acute yellow atrophy of liver
112. Hydatid tumor of the liver
113. Cirrhosis of the liver....
114. Biliary calculi
115. Other diseases of the liver
116. Diseases of the spleen....
117. Simple peritonitis (non-puerperal)
118. Other diseases of the digestive system (cancer and tuberculosis excepted)
- Total digestive apparatus

	AGE																								SEX		
	Under 1 year	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years	65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and under 90 years	90 years and over	Males	Females	
15	1	1	1	1	...	3	...	1	...	...	3	3	...	3	...	3	1	...	1	...	...	...	...	...	...	9	6
3	1	1	1	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	2
...
4	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	1	...	...	...	...	...	...	2	2
1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	1
16	1	...	...	...	1	1	...	...	...	...	1	...	...	3	2	4	3	...	1	1	...	...	...	...	...	4	12
...
21	1	...	...	...	...	1	7	...	3	1	1	...	2	1	3	...	1	1	...	...	...	...	...	...	...	8	13
...
170	79	11	2	3	2	97	10	5	2	3	4	3	4	3	6	10	9	7	4	5	2	...	1	0	...	84	86

CAUSES OF DEATH

Total for 1921

Non-Veneral. VI. Diseases of the Genito-Urinary Apparatus and its Annexa

119.	Nephritis, acute	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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CAUSES OF DEATH

Total for 1971

Affections Produced by External Causes—Continued

[illegible]

COLLECTION OF ASHES, 1921

	Loads
January	3,545
February	3,006
March	3,536
April	3,012
May	2,564
June	2,479
July	2,271
August	2,432
September	2,386
October	2,460
November	3,101
December	3,773
<hr/>	
Total	34,565

COLLECTION OF SWILL, 1921

	Loads
January	335½
February	299½
March	331
April	325½
May	338½
June	360½
July	349
August	483
September	442½
October	368
November	347½
December	402
<hr/>	
Total	4,382½

715 loads of Market Refuse were collected in 1921.

926 loads of paper were collected in 1921.

SWILL ACCOUNT, 1921

January	\$ 345.00
February	309.38
March	335.01
April	333.13
May	345.63
June	369.39
July	350.02
August	496.27
September	455.65
October	368.79
November	341.88
December	398.75
Swill Licenses	425.00
	<hr/>
	\$4,873.90

823½ loads of swill were charged to the City Farm in 1921.

78 Swill Licenses were issued during the year.

FINANCIAL STATEMENT—EXPENDITURES

PAY ROLLS—OFFICE

January	\$ 1,579.58
February	1,546.88
March	1,546.88
April	2,009.10
May	1,649.88
June	1,651.88
July	2,172.35
August	1,657.88
September	1,657.88
October	2,065.35
November	1,657.88
December	2,176.52
	<hr/>
	\$ 21,372.06

PAY ROLLS—YARD

January	\$ 8,429.83
February	8,643.39
March	8,356.85
April	10,034.57
May	8,070.83
June	7,955.16
July	9,526.77
August	7,830.10
September	7,981.04
October	9,686.73
November	7,691.59
December	12,614.38
	<hr/>
	\$106,821.24

SALARIES OF HEALTH OFFICE, 1921

Agent	\$ 2,307 02
Contagion Inspector	1,867.76
Plumbing Inspector, Mr. Midwood.....	1,799.75
Plumbing Inspector, Mr. Ryan.....	1,669.34
Tuberculosis Examining Physician.....	398.84
Vaccinating Physician	398.84
Meat Inspector	1,000.56
Health Inspector	1,380.33
Fumigator	1,650.04
Registrar	1,265.05
Nurse G. U. Clinic, Miss Lynch.....	601.05
Nurse G. U. Clinic, Miss Titecomb.....	675.00
Nurse, Child Welfare, Miss Titecomb.....	551.05
Nurse, G. U. Clinic, Mr. Milot.....	309.00
Physician, G. U. Clinic, Dr. Leland.....	1,000.56
Nurse for Tuberculosis, Mrs. Kirwin.....	776 05
Nurse for Tuberculosis, Miss Carroll.....	600.00
Nurse, Child Welfare, Miss Gorman.....	675.00
Nurse, Child Welfare, Miss Picard.....	1,199.60
Nurse, Child Welfare, Miss Sullivan.....	4.17
Nurse, Child Welfare, Miss Tompkins.....	1,226.05
Wages during quarantine for contagious diseases.....	24.00
Salaries of Board, 3 members.....	2,095.11
Salary of Bacteriologist	1,000.00

\$24,467.17

YARD LABOR, 1921

Ashes	\$ 49,007.62
Swill	20,809.90
Dumps and Alleys.....	10,201.85
Stablemen	6,594.64
Foreman	2,048.28
Blacksmith and Helper.....	3,585.77
Market Refuse	5,654.68
Yardman	1,821.50
Wheelwright	1,493.84
Vacation	3,700.66
Picking up Branches.....	1,902.50

\$106,821.24

HEALTH OFFICE SUNDRIES, 1921

Auto Expenses	\$ 464.31
Advertising	56.71
Book	11.14
Bacteriological Laboratory	155.18
Car Tickets	560.00
Culture Boxes	45.00
Express	43.79
Fumigating Supplies	372.00
First Aid Cabinet	11.23
Investigating Causes of Deaths.....	60.00
Printing Annual Report.....	180.00
Printing	392.25
Milk for Lowell Guild.....	345.58
Nurses' Cards	11.40
Nurses' Supplies	3.25
Repairing Typewriter	2.00
Sundries	259.39
Stamped Envelopes	131.00
Telephone	19.54
Traveling Expenses	134.03
Vaccinating	14.00
Vaccine Plasters	54.80
Total Office Sundries	\$ 3,326.60

EXPENSES OF OTHER CONTAGIOUS DISEASES

City of Boston.....	\$ 162.29
City of Cambridge.....	135.00
Burial	15.00
City of Lynn.....	27.86
City of Melrose.....	22.50
St. John's Hospital.....	267.00
City of Somerville.....	6.00
Provisions	18.00
Tewksbury State Infirmary.....	1,070.94
Medicine	22.57
Medicine in December, 1920.....	3.30
Telephone, Smallpox Hospital.....	59.85
Medical Services	335.50
Sheets, Cottage Hospital.....	4.47
Tetanus Antitoxin	22.50
	<hr/>
	\$ 2,172.78

EXPENSES OF CARING FOR TUBERCULOSIS, 1921

Burials	\$ 61.00
Chelmsford Street Hospital.....	48.22
Lawrence Tuberculosis Hospital.....	1,128.00
Provisions	1,299.37
Medical Services	30.00
Traveling Expenses	73.98
Sputum Boxes	57.50
Tewksbury State Infirmary.....	342.00
Medicine	65.75
Napkins	2.55
Westfield State Sanatorium.....	1,092.60
North Reading State Sanatorium.....	344.58
Lakeville State Sanatorium.....	568.00
Rutland State Sanatorium.....	334.28
Printing	16.40
Chelmsford Street Hospital, December, 1920..	22.32
Medicine, December, 1920.....	6.20
	<hr/> \$ 5,492.75

EXPENSES OF G. U. CLINIC, 1921

Electrical Work.....	\$	4.73
Files		16.00
Laundry		87.28
Medicine		295.35
Medical and Surgical Supplies.....		436.42
Stamps		100.26
Medical Services		5.00
Repairs		4.75
Sundries		26.14
Medicine, December, 1920.....		.95
Stamps, December, 1920.....		5.00
	<hr/>	\$ 981.88
Total expenditures Health Office Sundries in 1921		<hr/> \$11,974.01

YARD SUNDRIES, 1921

Brooms	\$ 20.00
Blacksmith's Supplies	1,165.04
Bran	191.70
Canvas Covers	344.00
Coal	846.44
Clipping Horses	6.00
Electric Lights	94.05
Electrical Work	11.40
Gas	104.37
Express .....	.52
Hardware	326.80
Harness Repairing and Supplies.....	558.33
Hay	10,285.55
Horse Medicine	20.95
Horses	400.00
Laundry	821.17
Lumber	88.98
Oats	6,183.51
Printing	51.00
Repairing Carriage	39.70
Sundries	201.93
Straw	289.60
Telephone	12.95
Use of Horses	1,239.00
Veterinary Services	55.00
Water	200.30
	<hr/> \$23,558.29

MILK DEPARTMENT

SALARIES, 1921

Salary of Milk Inspector	\$2,070.00
Salary of Collector	1,290.09
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	\$3,360.09

SUNDRIES

Directory for Suburban Towns	\$ 6.00
Directory for Lowell	5.00
Labels	35.00
Express	3.53
Glassware	164.55
Printing	50.90
Stamped Envelopes	28.00
Subscription to Paper	11.95
Sundries	20.09
Travelling Expenses	12.09
Telephone	64.20
Oil Vitriol	12.36
Motor Hire	21.00
Testing Babcock	5.30
	<hr/>
	\$439.97

MEDICAL INSPECTION PRIVATE SCHOOL

Salaries of Physicians	\$800.00
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INCOME TRANSFERRED TO GENERAL
FUND, 1921

HALTH DEPARTMENT

Swill Sold	\$ 4,448.90
Swill Licenses	425.00
G. U. Clinic Fees	271.00

Commonwealth of Massachusetts, for G. U. Clinic 1921....	850.00
Denatured Alcohol Licenses	9.00
Cash from Eleanor Cote at Tuberculosis Hospital.....	20.00
Cash from Jas. Bolianitis at Tuberculosis Hospital.....	98.00
Cash from John Markos at Tuberculosis Hospital.....	5.00
Cash from Tim Haggerty at Tuberculosis Hospital.....	75.00
Cash from Catherine McGaunn at Tuberculosis Hospital..	16.00
Cash from John McElroy at Tuberculosis Hospital.....	76.50
Cash from Alice Grant at Tuberculosis Hospital.....	56.00
Cash from Louis Johns at Isolation Hospital.....	21.50
Massage Licenses	2.00
Non-alcoholic beverage licenses	90.00
Lowell Day Nursery License	1.00
Wilmington Board of Health	210.02
Boston Board of Health	81.44
Draeut Board of Health	83.58
Ayer Home for Treatment of Children at Isolation Hospital	440.35
Commonwealth of Massachusetts for Contagious Diseases..	1,050.96
Mrs. Fruean at Isolation Hospital	50.00
Mr. Dodge at Isolation Hospital	23.57
Mary O'Neil at Isolation Hospital	32.14
F. Slater at Isolation Hospital	36.43
F. F. Morris	170.00
Catherine Moynihan at Isolation Hospital	42.86
Mary Keily at Isolation Hospital	19.28
R. E. Corlew at Isolation Hospital	32.15
Dr Gallivan at Isolation Hospital	238.60
Commonwealth of Massachusetts for G. U. Clinic, 1920	
Subsidy	1,000.00
Sale of Manure	367.24
Commonwealth of Massachusetts for 1290 Tuberculosis	
Subsidy	1,266.43
Thos. Varnum, Rent of Pasture	100.00
Fred Kenney, for Board of Cottage Hospital	23.57
Westfield Board of Health	8.00
Overdrafts	56.56
	<hr/>
	\$11,798.08

MILK DEPARTMENT

Licenses for Milk and Oleomargarine \$ 318.50

COST OF HEALTH DEPARTMENT, 1921

EXPENDITURES

Salaries of Office	\$ 24,467.17
Bills of Office	11,974.01
Yard Labor	106,821.24
Yard Sundries	23,558.29
Milk Department Salaries	3,360.09
Milk Department Sundries	439.97
Medical Inspection Private Schools	800.00
	<hr/>
	\$171,420.77

APPROPRIATIONS

Health Office	\$ 36,000.00
Health Yard	126,000.00
Milk Department	3,700.00
Medical Inspection Private Schools	800.00
	<hr/>
	\$166,500.00
Additional Appropriations	3,781.08
Overdrafts	56.56
Transfers	1,083.13
	<hr/>
	\$171,420.77

	Original Appropriation for 1921	Additional Appropriation for 1921	Appropriation to cover debit bal. from 1920	Overdrafts	Transfers	Expenditures from 1920 bills	Expenditures of 1921
Health Office	\$ 36,000.00	5 384.62	\$ 4,557.03	\$56.56		\$ 4,557.03	\$ 36,441.18
Health Yard	126,000.00	3,296.40	11,212.10		\$1,083.13	11,212.10	130,379.53
Milk Department	3,700.00	100.06	122.99			122.99	3,800.06
Medical Inspection Private Schools	800.00						800.00
	<u>\$166,500.00</u>	<u>\$3,781.08</u>	<u>\$15,892.12</u>	<u>\$56.56</u>	<u>\$1,083.13</u>	<u>\$15,892.12</u>	<u>\$171,420.77</u>

1894	83,026	\$a57,073.73	\$ 318.43	\$56,755.03	\$69,091,536	.63
1895	84,359	46,324.04	570.80	45,753.24	68,885,732	.54
1896	85,700	45,587.11	265.57	45,321.54	69,910,472	.53
1897	87,000	48,551.84	2,369.99	46,181.85	70,389,280	.53
1898	87,000	41,026.78	3,229.02	37,779.76	70,977,303	.43
1899	90,114	40,830.23	3,796.05	37,034.18	71,255,587	.41
1900	94,969	b46,266.11	3,647.03	42,619.00	71,529,515	.44
1901	94,969	46,673.41	4,585.26	42,088.15	71,674,588	.44
1902	95,574	c54,815.33	6,103.87	48,711.46	71,903,757	.48
1903	101,959	d46,168.01	4,085.12	42,682.89	72,004,028	.41
1904	104,402	e46,451.97	4,137.31	42,314.66	71,614,907	.40
1905	94,889	f51,707.39	3,727.41	47,979.98	71,645,718	.50
1906	96,380	54,096.00	4,566.66	49,529.34	74,325,775	.51
1907	96,380	57,763.79	6,808.20	50,955.59	76,079,750	.53
1908	96,380	g57,342.61	6,418.50	50,924.11	77,858,891	.53
1909	96,380	56,346.33	6,763.73	h49,582.60	79,176,837	.51
1910	106,294	h65,911.31	h6,770.56	59,140.75	80,094,803	.56
1911	106,294	173,425.97	16,762.36	i66,663.61	82,166,743	.62
1912	106,294	j74,136.25	j7,031.59	j67,104.66	84,797,348	.63
1913	106,294	k91,635.29	7,042.53	84,592.76	87,277,643	.80
1914	106,294	182,448.34	8,040.56	74,407.78	89,294,001	.70
1915	106,294	m88,841.59	6,492.16	82,349.43	92,716,047	.77
1916	107,978	n94,305.92	7,112.16	87,193.76	94,503,423	.80
1917	107,978	o104,327.19	7,379.26	96,947.93	90,820,901	.90
1918	107,978	p136,626.32	7,465.93	129,160.39	98,939,125	1.19
1919	107,978	q150,901.84	8,067.31	142,834.53	107,315,763	1.32
1920	112,759	r183,228.63	7,783.05	175,445.58	123,919,102	1.55
1921	112,759	s171,420.77	12,116.58	159,304.19	128,610,023	1.41

a. Smallpox and Swill Cremation, \$12,708.25.

b. Smallpox, \$4,739.69.

c. Smallpox, 6,626.20.

d. Smallpox, 1,000.00.

e. Smallpox, 1,010.02.

f. Smallpox, 3,297.08.

g. Smallpox, 291.64.

h. This includes expenditures and revenue of Milk Dept.

i. " " " " " "

j. " " " " " " also Smallpox.

k. " " " " " " "

l. " " " " " "

m. " " " " " "

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TENTH ANNUAL REPORT
OF
FIRE COMMISSIONER
OF THE FIRE DEPARTMENT
CITY OF LOWELL



FOR THE YEAR
NINETEEN HUNDRED AND TWENTY-ONE

REPORT

LOWELL, MASS., January 1, 1922
TO THE MAYOR AND CITY COUNCIL OF THE CITY
OF LOWELL:

GENTLEMEN:—I herewith submit the tenth annual report of the Commissioner of the Fire Department for the year ending December 31st, 1921.

The following statement will show the receipts and expenditures for the year:

RECEIPTS

Appropriation	\$373,000.00	
Transfers	66.00	
Transferred from gen. treasury	356.25	
Overdraft	2,382.39	
		<u>\$375,804.64</u>

EXPENDITURES

Fire Alarm	\$ 2,487.00
Automobile repairs and upkeep	8,167.38
Chemicals	425.83
Coal and wood	8,105.30
Furniture and bedding	821.50
Hose	5,350.00
Freight and express	237.20
Harness repairs	110.50
Hay and grain	3,619.43
Laundry	767.80
Lighting	2,578.46
Printing and stationery	450.22
Repairs	227.86
Shoeing	819.70
Soap	294.14

Sundries	2,401.11	
Telephone	296.03	
Veterinary	71.00	
Wagon repairs	391.09	
Water bills	751.04	
	<hr/>	
	\$ 38,372.59	
Salaries and wages.....	337,432.05	
	<hr/>	\$375,804.64

A new fire house of the bungalow type was built during the year at the corner of Pine and Stevens streets under the direction of the Commissioner of Public Property and Licenses and the Commissioner of Water Works and Fire Protection. The house is modern in every way and fully equipped. The apparatus is a White Triple Combination. It was formally opened on December 30th.

Details of the general work of the department will be found in the Chief's report which follows.

Respectfully submitted,

JOHN F. SALMON,

Commissioner of Water Works and Fire Protection

CHIEF'S REPORT

Chief's Office, Central Fire Station,

Lowell, Mass., January 1, 1922

To the Mayor and City Council of the City of Lowell:

Gentlemen:—In compliance with the City Ordinance, I have the honor of submitting for your consideration the annual report of the condition and operation of the Fire Department for the year ending December 31st, 1921.

SALARIES OF MEMBERS OF THE FIRE DEPARTMENT

Chief Engineer.....	\$3,000 per annum
1st Deputy Chief.....	\$2,500 per annum
2nd Deputy Chief.....	\$2,300 per annum
3rd Deputy Chief.....	\$2,300 per annum
Captains of Companies.....	\$5.58 per day
Lieutenants of Companies.....	\$5.30 per day
Engineers of Steamers.....	\$5.30 per day
Permanent Men, 1st grade.....	\$5.00 per day
Permanent Men, 2nd grade.....	\$4.00 per day
Electrician.....	\$47.75 per week
Linemen	\$37.50 per week

FORCE

The force is entirely permanent and consists of:

1 Chief Engineer	4 Engineers of Steamers
3 Deputy Chiefs	2 Chauffeurs
1 Fire Alarm Operator	121 Hosemen
2 Linemen	44 Laddermen
3 Telephone Operators	15 Patrolmen

A total of 196, of which 20 are Captains and 17 Lieutenants.

They are divided into companies as follows:

2 Steam Fire Engine Companies.

5 Motor Engine Companies.

2 Horse Hose Companies.

4 Motor Hose Companies.

4 Hook and Ladder Companies, one with Chemical Engine attached.

1 Protective Company.

CHANGES DURING THE YEAR

Appointed permanent	22
Died, permanent	1
Died, pensioner	1
Pensioned	1
Promoted	7

APPARATUS

The apparatus of this department is kept in the best possible condition and consists at present of:

Chief's Automobile	1
Assistant Chief's Automobiles.....	2
Electrician's Automobile	1
Combination Motors, Chemical and Hose Wagons	6
Triple Combinations	5
Auto Patrol Wagon.....	1
Auto Truck	1
Service Car	1
Steam Fire Engines.....	2
Two Horse Hose Wagons.....	3
Ladder Trucks	3
Chemical Engines	1
Hale Water Tower.....	1
Fuel Wagons	3
Fire Extinguishers	28

RESERVE APPARATUS

Chemical Engine	1
Two Horse Hose Wagons.....	1

HORSES

There are at the present time in the service of the department eighteen horses.

HARNESS

The harness in use in the department at the present time consists as follows:

Sets of double swinging harness.....	2
Sets of three horse swinging harness.....	5

TELEPHONE

The telephone system is the same that was installed in 1913 consisting of one thirty line switchboard located at the Palmer Street Station, which is connected with the central office of the New England Telephone and Telegraph Company by two toll lines, and also the fifteen different fire stations, the Chief's office and residence, the three District Chiefs' residences and battery room with eleven local lines.

PROTECTIVE DEPARTMENT

This department is maintained by the City and consists of fifteen permanent men. They have responded to three hundred and nine alarms: in service one hundred fifty-six and three-quarters hours; spread one hundred and ninety-five covers; used forty-two extinguishers; and fifty-six tanks; raised three hundred and thirty feet of ladders.

FIRE PREVENTION

A systematic inspection of buildings is made by the members of the Fire Department in order to relieve the fire hazard of the city. Each company has a certain district to inspect, and each inspection is recorded on a printed slip with report of conditions found. These slips are turned over to the Chief of the Department, and, when the conditions found are considered dangerous, letters are sent to both owners and tenants to have said conditions remedied. 11,033 buildings were inspected during the year by different companies.

FIRES AND LOSSES

The whole number of alarms during the year ending December 31st, 1921, was one thousand, one hundred and four (1,104.) Two hundred and seventy-eight (278) were given from signal boxes; four hundred and forty-six (446)

telephones; one hundred and seventy-nine (179) stills; seventeen (17) automatics; thirteen (13) exposures; and one hundred and seventy-one (171) reported fires. The "No School" signal was given twenty-three (23) times. There were four hundred and fifteen (415) fires extinguished by chemicals alone and two hundred and seven (207) where water was used. The remaining number were extinguished by other means or had been put out before the arrival of the department. Ninety-two (92) were in brick or stone buildings; three hundred and ninety-seven (397) in frame buildings and four hundred and forty-four (444) other than building fires. The reported fires were mostly in frame buildings.

The whole amount of loss, except the reported fires, was two hundred forty-five thousand, three hundred fifty-three dollars and five cents (\$245,353.05); insurance, fourteen million, two hundred fourteen thousand, three hundred fifty-three dollars and seven cents (\$14,214,353.07); insurance paid, two hundred twenty-four thousand, eight hundred seventy-six dollars and seventy-five cents (\$224,876.75); loss above insurance, twenty thousand, four hundred seventy-six dollars and thirty cents (\$20,476.30); valuation, fourteen million, five hundred seventy-five thousand, one hundred and fifty dollars (\$14,575,150.) The reported loss was twelve thousand, seven hundred forty-two dollars and fifty cents (\$12,742.50); insurance, twelve million, nine hundred thirty-six thousand, seven hundred forty-nine dollars and twenty-seven cents (\$12,936,749.27); valuation, thirteen million, thirty-seven thousand, nineteen dollars and twenty-seven cents (\$13,037,019.27.)

There have been four (4) alarms out of the city, to which some part of the department has responded, for which no insurances are kept: Billerica 1, Dracut 2, East Chelmsford 1.

There have been thirty-five (35) fires where the loss was \$1000 and over.

January 16th, 107 Clark Road, owned and occupied by J. H. Boardman, loss \$9,997.15.

January 25th, 201 Market street, owned and occupied by John Vlahos, loss \$1,135.25.

January 28th, 32 Cascade Avenue, owned and occupied by J. A. Moody, loss \$3,168.50.

February 11th, 147 Central street, owned by Bradley Bros. and occupied by J. J. Sullivan, loss \$2,195.75.

February 20th, 463 Middlesex street, owned by N. Manning estate and occupied by several, loss \$3,464.52.

February 21st, 29 C street, owned by P. Neylon and occupied by Julia Lapiere, loss \$2,368.50.

February 23rd, Jackson street, owned and occupied by the Appleton Company, loss \$39,000.

February 24th, 443 Broadway street, owned by A. & P. Tavoularis and occupied by several, loss \$1,000.

February 28th, 374-6 Hildreth street, owned by J. Boisvert and occupied by P. N. Chaput, loss \$4,475.50.

March 13th, 858 Chelmsford street, owned by C. L. Smith estate and occupied by O. R. Beach, loss \$2,600.

March 31st, 24 Eighth avenue, owned and occupied by Mrs. M. Wood, loss \$1,238.75.

April 14th, Lang street, owned and occupied by the City as a school, loss \$1,648.30.

May 12th, 617 Westford street, owned and occupied by M. L. Alling, loss \$2,882.56.

June 4th, 515 Market street, owned by J. Marcopoulos and A. A. Johnson and occupied by Tel. Printing Company, loss \$1,354.

July 2nd, Howe street, owned by Wamesit Power Company and occupied by Bergeron and Parent, loss \$2,210.70.

July 8th, 285 Thorndike street, owned and occupied by Gabriel Kahan, loss \$12,004.97.

July 10th, 187 Mammoth Road, owned by E. J. Noyes and occupied by S. Paul, loss \$1,034.05.

August 1st, 647-55 Merrimack street, owned by I. Bernstein and occupied by several, loss \$1,573.04.

August 5th, 784 Pawtucket street, owned by A. M. Torigian and occupied by E. R. McLeod, loss \$1,000.

August 17th, rear 397 Walker street, owned and occupied by N. Goodman, loss \$1,000.

August 19th, 212 Central street, owned by T. Costello estate and occupied by D. A. Sakellarios, loss \$1,010.

August 23rd, 375 Middlesex street, owned by I. Bernstein and occupied by R. E. Gadoury, loss \$1,236.

August 26th, rear 170 Suffolk street, owned and occupied by N. Cazanias, loss \$1,045.

August 31st, Border street, owned and occupied by Redman and Russell, loss \$11,601.75.

September 2nd, 489 Middlesex street, owned by Abraham Smith and occupied by C. Gaudette & Company, loss \$4,353.79.

September 5th, 284-296 Middlesex street, owned by I. Bernstein and occupied by several, loss \$6,323.20.

October 15th, Tanner street, owned by J. A. Simpson and occupied by Lowell Waste Company, loss \$20,831.18.

October 23rd, 448 Merrimack street, owned by G. N. Osgood and occupied by several, loss \$3,466.42.

November 18th, 43 Coburn street, owned and occupied by M. Rindler, loss \$1,039.43.

November 25th, 17-20 Bent's Court, owned by W. Boumil and occupied by several, loss \$1,539.

November 28th, West Meadow Road, owned and occupied by City as Isolation Hospital, loss \$2,925.36.

December 7th, 328-32 Middlesex street, owned and occupied by Samuel Scott, loss \$19,395.

December 7th, 533-51 Middlesex street, owned by C. Harry Clapp and occupied by several, loss \$4,539.

December 21st, 105 Nesmith street, owned and occupied by T. G. McGannon, loss \$1,628.60.

December 22nd, Prescott and Merrimack streets, owned by DeMallie Brothers and occupied by several, loss \$39,461.83.

The total loss on these thirty-five (35) fires was two hundred fifteen thousand, seven hundred forty-seven dollars and ten cents (\$215,747.10), leaving twenty-nine thousand, six hundred five dollars and ninety-five cents (\$29,605.95) to be divided between the other eight hundred and ninety-eight alarms.

A comparison of the Total Number of Alarms and Losses from January, 1906, to January, 1922:

Year	Alarms	Ins. Los	Unins. Loss	Total Loss
1906	557	\$ 64,994.94	\$ 2,270.71	\$ 67,265.65
1907	838	242,167.98	39,624.52	281,792.50
1908	935	350,873.25	16,421.80	367,295.05
1909	963	177,759.11	8,705.80	186,464.91
1910	904	64,781.93	3,188.00	67,969.93
1911	1101	86,034.34	19,295.48	105,329.82
1912	959	260,833.26	9,575.99	270,409.25
1913	882	200,600.03	19,825.26	220,425.29
1914	1028	265,804.53	17,476.53	283,281.06
1915	926	170,262.53	12,127.67	182,390.20
1916	896	138,170.66	3,400.86	141,571.52
1917	1031	129,207.10	14,994.73	144,201.83
1918	1047	161,940.71	37,688.51	199,629.22
1919	942	211,681.50	20,461.42	232,142.92
1920	876	204,249.92	96,762.40	301,012.32
1921	1104	237,619.25	20,476.30	258,095.55

TOTAL NUMBER OF BUILDINGS IN THE CITY

Wooden buildings	19,404
Brick buildings	1,080
Cement buildings	369
Stone buildings	83
Wood and glass buildings.....	41
Steel buildings	28
Iron buildings	24
Wood buildings covered with metal.....	17
Kellastone buildings	13
Concrete buildings	8
Stucco buildings	6

Buildings of all descriptions..... 21,073

NUMBER OF ALARMS OF FIRE EACH MONTH

January	74	August	79
February	54	September	47
March	104	October	106
April	87	November	72
May	74	December	65
June	114	Reported	171
July	57		
Total			1104

CAUSES OF FIRES AND ALARMS

Alarms for same fire...	30	Children and matches..	15
Ammonia tank leaking.	1	Chimney	75
Automobiles	39	Cigaret	50
Auto backfired—set		Clothes near stove.....	1
building	1	Coal gas flash.....	1
Boiler blowing off.....	2	Combustion	46
Boiler exploded	1	Covering on stove pipe..	9
Boiler overflowed.....	1	Defective chimney.....	8
Boiler smoking.....	4	Defective wires.....	2
Broken gas pipe in street	1	Drying wood in oven...	1
Brush	26	Dump	153
Candles set clothtes....	3	Dust in heater.....	1
Carboy of acid over-		Electric iron	1
turned	1	Electric wires	12
Carelessness	25	Exposure	13
Careless use of matches.	7	False alarms	36

Fat on stove.....	3	Rats and matches.....	6
Filling gasoline tank...	2	Rekindled	20
Firecrackers	3	Reported alarms.....	171
Fireplace	2	Rescuing men on rocks.	1
Fireworks	1	Resistance box	1
Funnel out of chimney..	1	Rubbish	24
Gas in balloon ignited..	1	Second alarms	3
Gas iron	1	Set by boys.....	11
Gas jet	5	Smoke from chimney...	2
Gas stove	8	Smoke pipe out of chim-	
Gasoline leaking	1	ney	1
Grass	92	Smoking set bed.....	8
Hay in street	1	Smoking set chair.....	1
Heating putty on window	1	Smoking set curtain....	1
Heating wax	1	Soot in stove pipe.....	1
Hot ashes	15	Sparks from auto.....	2
Hot box	2	Sparks from boiler....	1
Hot water heater.....	1	Sparks from chimney...	5
Incubator	1	Sparks from locomotive	3
Japanese lantern	1	Sparks from stove.....	3
Kettle of parafine.....	1	Sparks in lumber.....	1
Kerosene stove	2	Sparks in wood box....	1
Lamp set curtain.	1	Sparks set roof.....	20
Lamp upset	5	Sprinkler head burst...	1
Lamp used on still.....	1	Steam from boiler.....	1
Lantern set alcohol....	1	Still exploded	1
Locked out of house....	1	Stove smoking	10
Man trying to cut throat	1	Stove set on floor.....	1
Match thrown in gaso-		Sulphur	1
line	1	Sunrays set canvas on	
Motor	2	motor	1
Motor cycle	1	Tar kettle	2
No school	23	Thawing water pipes...	5
Old lumber.....	1	Thawing bricks	1
Oil stove	4	Thermostat system out	
Out of the city.....	4	of order	19
Overheated boiler	5	Toasting bread	1
Overheated chimney...	5	Torch upset	3
Overheated funnel.....	4	Trolley wires	1
Overheated furnace....	2	Wall paper cracking...	1
Overheated motor.....	2	Waste paper in street..	1
Overheated oven.....	1	Water pipe burst.....	1
Overheated stove.....	4	Wires	3
Overheated stove pipe..	1	Wood near boiler.....	1
Pan of meat.....	7	Unknown	2
		Using torch	1
		Papers behind stove...	1

NUMBER OF ALARMS ANSWERED BY MEMBERS OF THE DEPARTMENT ON DAYS OFF

Capt. C. E. Abare.....	1	J. N. Emerson.....	1
Capt. G. S. Alcott.....	2	E. F. Farrell.....	1
Capt. E. W. Bartlett.....	4	J. E. Fontaine.....	2
Capt. J. E. Burns.....	1	M. J. Gildea.....	1
Capt. R. E. Burns.....	3	T. J. Gillick.....	1
Capt. G. A. Campbell....	1	C. E. Gillis.....	3
Capt. T. F. Conway.....	4	J. P. Gillis.....	1
Capt. E. J. P. Cunningham	1	W. J. Graham.....	1
Capt. J. D'Amour.....	1	N. Grandchamp	1
Capt. E. H. Dearth.....	2	J. H. Gray.....	1
Capt. H. L. Foster.....	1	P. B. Gray.....	1
Capt. D. W. Hilliard....	2	H. W. Hilliard.....	1
Capt. J. J. McCafferty..	1	J. W. Jantzen.....	1
Lieut. J. M. G. Burns....	2	F. J. Kelleher.....	2
Lieut. G. H. Chapman....	1	A. E. Kidder.....	1
Lieut. J. W. Halstead...	1	W. H. Kirkpatrick.....	2
Lieut. E. Jennings.....	1	L. O. Lamontagne.....	1
Lieut. P. F. Mahoney....	3	T. F. Maguire.....	2
Lieut. P. F. Mooney.....	1	W. P. Maker.....	1
Lieut. G. H. McDermott..	2	J. J. McCarthy.....	2
Lieut. L. P. Reed.....	1	T. P. McColough.....	1
Lieut. C. F. Stackpole....	1	J. F. McCready.....	2
Lieut. T. H. Welch.....	2	J. E. McGann.....	3
Lieut. J. J. Wholey.....	1	J. F. McGuinness.....	1
F. E. Alcott.....	1	H. A. McLaughlin.....	1
R. Bisailon	1	J. J. McManmon.....	1
F. Boynton	1	W. E. McNally.....	2
F. Broadbent	2	W. F. McNiff.....	1
R. W. Broadbent.....	1	P. J. Mooney.....	1
P. F. Calnan.....	1	J. P. Moore.....	2
H. D. Carpentier.....	2	J. J. Mulligan.....	2
W. G. Chain.....	2	G. W. Mulvey.....	1
W. F. Christie.....	1	D. F. Murphy.....	1
G. A. Collins.....	2	J. J. Nelligan.....	2
B. F. Connors.....	2	E. J. O'Donnell.....	1
J. F. Convery.....	1	P. H. O'Loughlin.....	1
W. J. Corbett.....	1	S. R. Pendextetr.....	1
H. G. Cote.....	2	E. Perham	2
G. A. Crawford.....	1	W. F. Riley.....	2
G. A. Cummings.....	1	J. J. Rinehardt.....	1
G. A. Dickey.....	2	T. F. Sullivan.....	1
W. F. Dolan.....	2	E. J. Tighe.....	1
J. J. Donahoe.....	1	J. H. Tracy.....	1
J. T. Doyle.....	2	E. A. Walsh.....	2

SERVICE OF THE DEPARTMENT FOR 1921

	Number of alarms attended	Number of hours worked	Feet of hose laid	Hours of hydrants in use	Number of extinguishers used	Number of chemical tanks used	Feet of ladders raised	Hours engines worked	Number of covers used
Engine No. 1	128	89¾	11,150	47¼	31	12	101	5¼	
Engine No. 2	174	112	11,900	40½	86	32	670	4¾	
Engine No. 3	182	96¼	6,850	23¼	24	26	220	20½	
Engine No. 4	124	74	4,709	16	75	19	229		
Engine No. 5	101	145¼	17,900	91¼	25	11	44		
Engine No. 6	151	79¼	9,550	25¼	46	12	525	2½	
Engine No. 7	110	76¼	6,800	24¾	63	22	250		
Hose No. 8	184	82½	8,950	17¼	66	20	244		
Hose No. 9	102	195	12,600	137¼	30	13	30		
Hose No. 10	92	184¼	20,000	118½	49	2	40		
Hose No. 11	70	92¾	8,000	50¾	42	7	80		
Hose No. 12	162	186	23,900	112½	17	18	560		
Truck No. 1	64	57			15		1,974		
Truck No. 2	124	94¼					2,008		
Truck No. 3	137	77¼					741		
Truck No. 4	78	52½					330		
Protective.....	309	156¾			42	56			195
	2,293	1,851¾	142,300	704½	611	250	8,046	33	195

IN MEMORIAM

**CAPT. CHARLES F. HEMENWAY
PENSIONER**

Appointed September, 1875

Pensioned July 6, 1918

DIED

January 2, 1921

**HAMBLIN S. GARDNER
HOSEMAN**

HOSE COMPANY NO. 9

Appointed May 1, 1874

DIED

August 31, 1921

FATALITIES

March 13th. Alfred Lefelvie, 749 Merrimack street, age thirty-five years. Smoking set bed. Suffocated and burned to death.

March 23rd. Mrs. Jose M. Silva, 185 Moody street, age thirty-four years. Francisco, age two years and Constantia, age six months. Lamp upset. Suffocated and burned to death.

April 5th. Jessie Irene Clogston, 388 Christian street, age thirty-six years. Match set clothing.

July 28th. Mrs. Elizabeth Bird, 36 Smith street, age sixty-three years. Lamp upset; set clothing.

October 31st. Celia Benoit, 112 Quebec street, age four years. Jack-o-lantern set clothing.

In conclusion I wish to extend my thanks to His Honor, the Mayor, the Commissioner of Water Works and Fire Protection and the Municipal Council for the interest taken in matters pertaining to the Fire Department. I also wish to thank the officers and members of the Department for the ability, faithfulness and willingness shown in the performance of their duties. I wish to extend thanks to the Chief of Police and the members of the Police Department for the assistance rendered at fires.

Respectfully submitted,

EDWARD F. SAUNDERS,

Chief of Fire Department

FIRE DEPARTMENT

January 1st, 1921

Chief Engineer

EDWARD F. SAUNDERS, Office Palmer St. Engine House
Residence, 24 Mt. Washington Street

District Chiefs

JAMES C. SULLIVAN.....250 Rogers Street
DANIEL H. CROWLEY.....26 Marginal Street
THOMAS F. SAUNDERS.....168 School Street

Chief's Chauffeurs

JOSEPH J. MALONE.....427 Lincoln Street
PAUL A. JOHNSTON.....398 Broadway Street

Fire Alarm Operator

THOMAS F. CONWAY.....128 Pleasant Street
THOMAS McCORMICK, Lineman.....57 Fourth Street
ARTHUR E. KING, Lineman.....205 Stackpole Street

Telephone Operators

PHILIP McLAUGHLIN.....16 Keene Street
HARRY B. SANDERS.....20 Manahan Street
WILBUR H. OKE.....175 Westford Street

LIST OF MEMBERS, GIVING RANK AND RESIDENCE BY COMPANIES

ENGINE COMPANY NO. 1

795 Gorham Street

Thomas W. Collins, Captain, Badge No. 11	50 A St.
Philip F. Mooney, Lieutenant, Badge No. 18	203 Moore St.
James W. Jantzen, Engineer, Badge No. 16	3 Olive St.
Frank G. Collins, Engineer, Badge No. 15	798 Moody St.
James O'Hare, Hoseman, Badge No. 13	27 Ellsworth St.
W. Henry Kirkpatrick, Hoseman, Badge No. 10	35 London
William J. Heelon, Driver, Badge No. 14	12 Jennings Pl.
Michael T. McCann, Driver, Badge No. 17	28 Bowden St.
James H. Gray, Hoseman, Badge No. 1	23 Ellsworth St.
Willis S. Holt, Hoseman, Badge No. 169	8 Hale St.
Daniel F. Murphy, Hoseman, Badge No. 19	80 Anderson St.
James E. McGann, Hoseman, Badge No. 12	37 Cosgrove St.

ENGINE COMPANY NO. 2

45 Branch Street

Joseph D'Amour, Captain, Badge No. 2	24 Fisher St.
Charles F. Stackpole, Lieutenant, Badge No. 21	25 Grace St.
Forest E. Alcott, Hoseman, Badge No. 28	208 Westford St.
Frank Broadbent, Hoseman, Badge No. 27	121 Branch St.
Romuald Bisailon, Hose., Badge No. 26	67 Mammoth Rd.
John P. Mealey, Hoseman, Badge No. 25	215 Cross St.
Frank J. Geary, Hoseman, Badge No. 22,	16 Olive St.
George W. Cummings, Hoseman, Badge No. 24	11 Third Av.
William J. Ryan, Hoseman, Badge No. 29	249 W. London St.
Joseph H. Lemire, Hoseman, Badge No. 23	54 Branch St.

ENGINE COMPANY NO. 3

Palmer Cor. Middle Street

Frank Hoyt, Captain, Badge No. 30	21 Eighth Ave.
Elbridge H. Dearth, Captain, Badge No. 31	64 So. Loring St.
John J. McCarthy, Hoseman, Badge No. 32	150 Fourth Ave.
John J. Rinehardt, Hoseman, Badge No. 39	101 Gates St.
Hugh V. Green, Hoseman, Badge No. 35	547 Lakeview Ave.
Thomas F. Sullivan, Hoseman, Badge No. 34	64 Boylston St.
Bartholomew J. Mullen, Hoseman, Badge No. 37	33 Ellis St.
William J. Corbett, Hoseman, Badge No. 3	134 Pleasant St.
Walter E. McNally, Hoseman, Badge No. 38	40 Mead St.
Paul A. Healy, Hoseman, Badge No. 36	25 Butler Ave.

ENGINE COMPANY NO. 4

High Street

J. Edward Burns, Captain, Badge No. 4 39 Whitehead Ave.
Alfred F. Prescott, Lieutenant, Badge No. 42 565 Wilder St.
Peter J. Regan, Hoseman, Badge No. 45 316 Rogers St.
Jay D. Ismond, Hoseman, Badge No. 47 246 Beacon St.
William F. Dolan, Hoseman, Badge No. 43 Engine House
George F. Schofield, Hoseman, Badge No. 40 95 Myrtle St.
James T. Doyle, Hoseman, Badge No. 49 31 Ferry Lane
Francis J. Sullivan, Hoseman, Badge No. 44 151 Lawrence
George J. Tracy, Hoseman, Badge No. 41 30 Riverside St.
Michael F. Egan, Hoseman, Badge No. 48 113 Pleasant St.

ENGINE COMPANY NO. 5

29 Fourth Street

James J. McCafferty, Captain, Badge No. 55 74 Fourth St.
Patrick F. Mahoney, Lieutenant, Badge No. 53 18 Fourth St.
Alonzo E. Kidder, Driver, Badge No. 5 61 Twelfth St.
Charles L. Brown, Engineer, Badge No. 51 29 Fourth St.
Edson S. Barnes, Hoseman, Badge No. 50 68 Beacon St.
John C. O'Neil, Hoseman, Badge No. 57 20 Sixth Ave.
Hugh A. McLaughlin, Hoseman, Badge No. 56 127 Bellevue
Archibald E. Kenefick, Hose., Badge No. 58 215 Stackpole
Frank E. Turner, Hoseman, Badge No. 54 15 Ware St.
Herman R. Morrison, Engineer, Badge No. 59 342 Westford
Moses I. Collins, Engineer, Badge No. 52 20 Coral St.
John W. Gray, Hoseman, Badge No. 33 71 Whipple St.

ENGINE COMPANY NO. 6

Fletcher Street

Richard E. Burns, Captain, Badge No. 68 203 Westford St.
William M. Barrett, Lieut., Badge No. 61 16 W. Bowers
John A. Fletcher, Hoseman, Badge No. 6 137 Riverside St.
Samuel R. Pendexter, Hoseman, Badge No. 60 22 W. Bowers
Thomas F. Maguire, Hoseman, Badge No. 63 14 Varney St.
Edgar Perham, Hoseman, Badge No. 69 55 Arlington St.
John J. Wholey, Lieutenant, Badge No. 66 48 Mt. Vernon
James F. Nelligan, Hoseman, Badge No. 65 19 Bowers St.
Walter F. Powers, Hoseman, Badge No. 62 10 May St.
Edward J. O'Donnell, Hoseman, Badge No. 64 190 Fletcher

ENGINE COMPANY NO. 7

Pine and Stevens Streets

Gilman S. Alcott, Captain, Badge No. 7 1194 Middlesex St.
James W. Halstead, Lieutenant, Badge N. 70 115 Warwick
George A. Crawford, Hoseman, Badge No. 73 188 Pine St.
Herbert W. Hilliard, Hoseman, Badge No. 71 20 Osgood St.
Ludger O. Lamontagne, Hoseman, Badge No. 78 2 Stevens
William G. Chain, Hoseman, Badge No. 79 45 Coral St.
John J. Hurley, Hoseman, Badge No. 74 218 Thorndike St.
Thomas J. Gillick, Hoseman, Badge No. 75 29 Lyons St.
Charles J. Lorigan, Hoseman, Badge No. 76 23 Houghton St.
Warren White, Hoseman, Badge No. 72 46 Hudson St.

HOSE COMPANY NO. 8

Merrimack, Corner Race Street

George F. Flint, Captain, Badge No. 82 63 Woodward Ave.
Joseph L. Crowe, Lieutenant, Badge No. 85 116 Crawford
Joseph H. Rogers, Hoseman, Badge No. 89 11 Read St.
Henry D. Carpentier, Hose., Badge No. 84 30 W. Meadow R.
Joseph F. Convery, Hoseman, Badge No. 83 19 Bowers St.
William F. McNiff, Hoseman, Badge No. 80 94 High St.
James F. McCreedy, Hoseman, Badge No. 81 126 Bowers St.
John F. Thomas, Hoesman, Badge No. 86 33 Second Ave.
Albert X. Hamel, Badge No. 95 7 Mt. Washington St.

HOSE COMPANY NO. 9

Lincoln Street

Orison A. Knapp, Captain, Badge No. 9 47 Hawthorne St.
George H. Chapman, Lieutenant, Badge No. 92 53 Quebec
Charles A. Rock, Driver, Badge No. 93 673 Chelmsford St.
Fred Boynton, Driver, Badge No. 98 148 Smith St.
Fred O. J. Townsend, Hoseman, Badge No. 96 14 Somerset
George A. Dickey, Hoseman, Badge No. 97 11 Hastings St.
William T. Foss, Hoseman, Badge No. 91 37 Pond St.
Frank A. Kappler, Hoseman, Badge No. 90 125 London St.

HOSE COMPANY NO. 10

Mammoth Road

Edwin W. Bartlett, Captain, Badge No. 160 559 Fletcher St.
William F. Tighe, Lieutenant, Badge No. 162 203 Cross St.
Robert W. Broadbent, Driver, Badge No. 161 11 Fourth Ave.
Edward F. Farrell, Hoseman, Badge No. 166 12 Third Ave.
David Laferriere, Hose., Badge No. 167 100 W. Meadow Rd.
Edgar E. Smith, Hoseman, Badge No. 165 206 Wilder St.
Andrew B. McLaughlin, Hose., Badge No. 163 79 Willie St.
Joseph A. Ready, Hoseman, Badge No. 164 90 Magnolia St.

HOSE COMPANY NO. 11

Lawrence Cor. So. Whipple Street

William A. Dolan, Captain, Badge No. 200 56 Crowley St.
Edward Jennings, Lieut., Badge No. 201 859 Lawrence St.
John N. Emerson, Hoesman, Badge No. 202 27 Carter St.
John D. Finnegan, Hoseman, Badge No. 203 732 Lawrence
Michael J. O'Connor, Hoseman, Badge No. 204 101 London
James H. Lannon, Hoseman, Badge No. 209 819 Lawrence
Peter B. Gray, Hoseman, Badge No. 207 71 Whipple St.
James H. Tracy, Hoseman, Badge No. 208 147 Concord St.
William J. Lane, Hoseman, Badge No. 206 505 Central St.

HOSE COMPANY NO. 12

West Sixth Street

Charles E. Abare, Captain, Badge No. 220 51 Fifth St.
Lewis P. Reed, Lieutenant, Badge No. 221 874 Lakeview Av.
Joseph Bernier, Hoseman, Badge No. 223 263 W. Sixth St.
Edward Landry, Hoseman, Badge No. 226 29 Beaulieu St.
William F. Egan, Hoseman, Badge No. 225 69 Lilley Ave.
William E. Gorman, Hoseman, Badge No. 224 17 Ellis St.
Thomas Rafferty, Hoseman, Badge No. 228 85 Branch St.
Peter J. Deschene, Hoseman, Badge No. 227 768 Moody St.

HOSE COMPANY NO. 13

490 Central Street

James A. Shea, Captain, Badge No. 130 22 Bleachery St.
Thomas H. Welch, Lieutenant, Badge No. 131 93 Chapel St.
Timothy J. Dewire, Hoseman, Badge No. 132 315 High St.
Patrick J. Mooney, Hose., Badge No. 138 207 Mammoth Rd.
Bernard F. Connors, Hoseman, Badge No. 137 76 Elm St.
Stephen J. Callahan, Hoseman, Badge No. 135 49 Walnut St.
Edward F. Sullivan, Hose., Badge No. 136 99 Andrews St.
John H. Quinn, Hoseman, Badge No. 134 42 Albion St.

TRUCK COMPANY NO. 1

Lawrence Street

Timothy Brown, Captain, Badge No. 210 27 So. Whipple St.
Joseph M. G. Burns, Lieut., Badge No. 214 543 Rogers St.
John J. Donohoe, Ladderman, Badge No. 211 76 Agawam
Edward J. Tighe, Ladderman, Badge No. 212 72 Chestnut
James F. McGuinness, Ladder., Badge No. 213 119 Agawam
John J. Lowney, Ladderman, Badge No. 215 361 Lincoln St.
Patrick H. O'Loughlin, Ladder., Badge No. 216 124 Chapel
George A. Collins, Ladderman, Badge No. 217 50 A St.
William J. Graham, Ladder., Badge No. 218 338 Fairmount
Michael J. Gildea, Ladderman, Badge No. 219 72 Swift St.

TRUCK COMPANY NO. 2

45 Branch Street

Daniel W. Hilliard, Captain, Badge No. 121 20 Osgood St.
George W. Alcott, Lieutenant, Badge No. 120, 89 Bellevue
Quincy A. Foster, Ladderman, Badge No. 126 29 Midland St.
William P. Maker, Ladderman, Badge No. 123 16 Rose Ave.
Francis J. Kelleher, Ladder., Badge No. 124 111 Agawam
Patrick F. Calnan, Ladderman, Badge No. 125 113 Concord
Clarence E. Gillis, Ladderman, Badge No. 122 216 Third St.
Peter J. O'Rourke, Ladderman, Badge No. 128 29 Daly St.
James E. Burns, Ladderman, Badge No. 127 171 Fletcher St.
Thomas Corrigan, Ladderman, Badge No. 74 40 Crosby St.

TRUCK COMPANY NO. 3

Palmer Street

Harold L. Foster, Captain, Badge No. 101 31 Midland St.
Edward J. P. Cunningham, Capt., Badge No. 110
109 Mammoth Rd.
Philip J. Connor, Ladderman, Badge No. 112 506 Gorham
Robert Carland, Ladderman, Badge No. 111 17 Second St.
Martin F. McNally, Ladder., Badge No. 115 57 So. Whipple
James A. Haley, Ladderman, Badge No. 113 145 Cross St.
J. J. McManmon, Ladder., Badge No. 114 23 Woodward Av.
John J. Moran, Jr., Ladder., Badge No. 118 50 Bowden St.
John P. Moore, Ladderman, Badge No. 116 1017 Central St.
George W. Mulvey, Ladderman, Badge No. 38 134 Congress
Daniel F. O'Connor, Ladderman, Badge No. 119 87 Howard
Martin Slattery, Ladderman, Badge No. 88 118 Moore St.
James H. Hogan, Ladderman, Badge No. 87 44 Mead St.

TRUCK COMPANY NO. 4

West Sixth Street

Herbert A. Merrill, Captain, Badge No. 100 4 Wachusett St.
George H. McDermott, Lieut., Badge No. 103 221 White St.
Edward A. Walsh, Ladder., Badge No. 106 19 Mt. Vernon
William O. Lussier, Ladder., Badge No. 102 9 Bowers St.
Joseph E. Fontaine, Ladder., Badge No. 109 200 W Sixth St.
George J. Hurley, Ladder., Badge No. 104 25 Read St.
Ray N. Symonds, Ladderman, Badge No. 105 36 Fremont St.
C. Herbert Cogswell, Ladder., Badge No. 108 38 Fremont St.
William F. Riley, Ladderman, Badge No. 101 41 West St.
John P. Gillis, Ladderman, Badge No. 107 261 Third St.

PROTECTIVE COMPANY NO. 1

Palmer Cor. Middle Street

George A. Campbell, Capt., Badge No. 150 159 Middlesex
John F. Ambrose, Lieutenant, Badge No. 151 211 Princeton
Berry M. Simpson, Patrolman, Badge No. 155 259 Methuen
Hugh F. Finnerty, Patrol., Badge No. 159 124 Wannalancit
William F. Christie, Patrol., Badge No. 152 155 W. Sixth St.
Napoleon Grandchamp, Patrol., Badge No. 154 169 Merr'k
John J. Mulligan, Patrol., Badge No. 156 174 Crosby St.
Frederick V. Fahey, Patrol., Badge No. 151 862 Central St.
Harry G. Cote, Patrol., Badge No. 153 84 Homestead Rd.
William T. Caveney, Patrol., Badge No. 99 7 Pleasant St.
Edward A. Farrell, Patrol., Badge No. 157 12 Burns St.
Rosario LeBlue, Patrol., Badge No. 229 780 Lakeview Ave.
Thomas P. McColough, Patrol., Badge No. 158 571 E. Merr'k
Francis J. Donnelly, Patrol., Badge No. 140 76 Elm St.
Edward T. Gilfillan, Patrol., Badge No. 141 74 W. Fourth St.

FIRE ALARM TELEGRAPH

LOCATION—PALMER STREET ENGINE HOUSE

THOMAS F. CONWAY, Operator

THOMAS F. McCORMICK, Lineman

ARTHUR E. KING, Lineman

Ten-circuit Automatic Repeater with Storage Battery of 600 cups.

Miles of Wire.....	113
Signal Boxes	171
Engineers' Gongs	10
Engine House Gongs.....	16
Indicators	17
Tape Register	1
Bell Strikers	14

Gong and Indicator at Police Station.

Gong in Pumping Station.

Gong on Merrimack Square.

Gong on Tower's Corner.

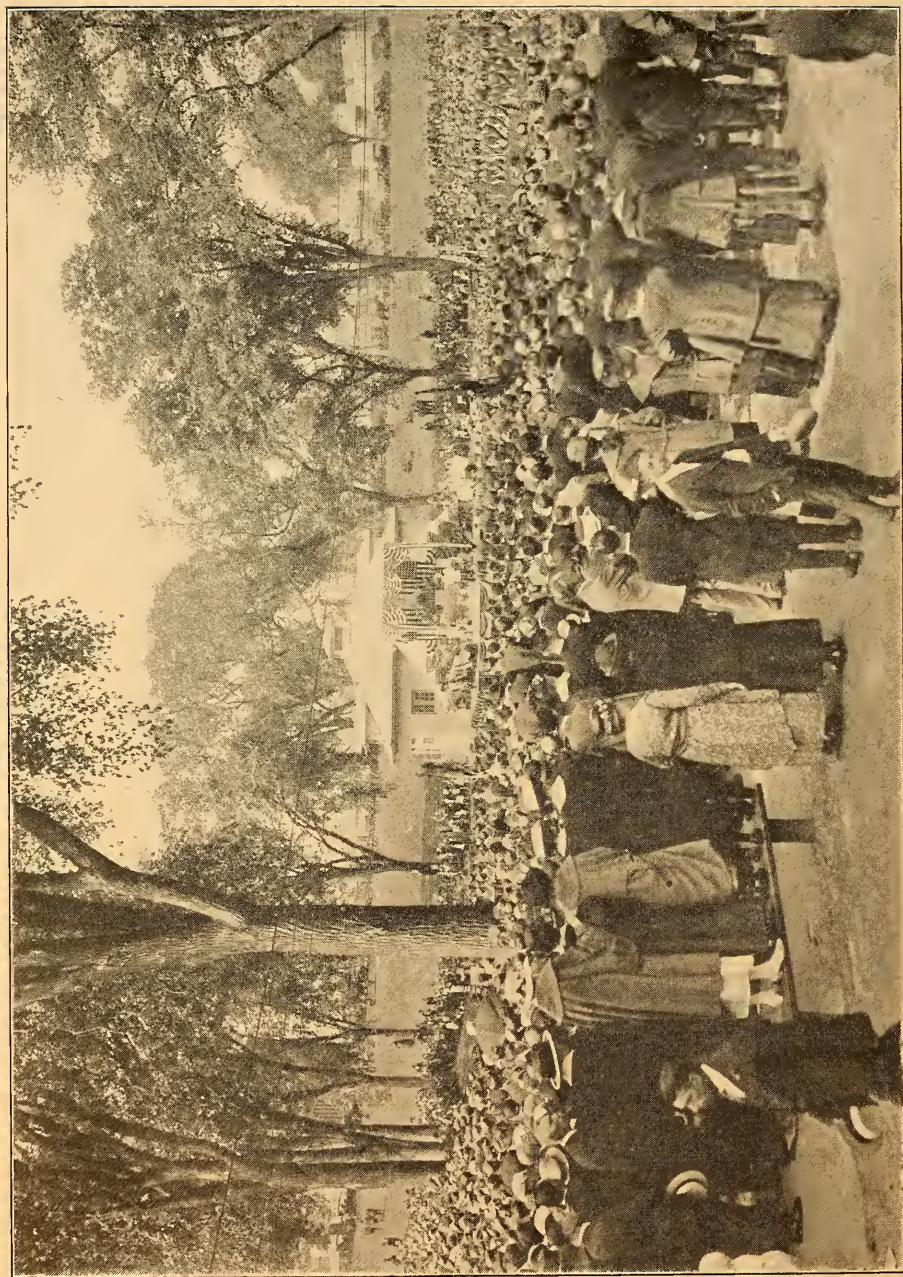
Gong on Northern Depot.

Gong corner Moody and Aiken Streets.

Gong corner Bridge and First Streets.

Gong corner Andover and Fayette Streets.

The strikers are located as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, No. 6 Engine House, Highland School House, Pawtucketville Engine House, Franklin School House, Lawrence Street Engine House, Cornell Street School House, West Sixth Street Engine House, Sycamore Street School House, Weed Street School House.



MEMORIAL MASS, SOUTH COMMON, MAY 30, 1921

Nineteenth Annual Report

of the Board of

Park Commissioners

of the

CITY OF LOWELL



For the Year Ending December 31

1921

BUTTERFIELD PRINTING Co.
Lowell, Mass.,
1922



MEMORIAL MASS, SOUTH COMMON, MAY 30, 1921

Department of Public Parks

COMMISSIONERS' REPORT

*To His Honor the Mayor and the City Council of the City of
Lowell, Massachusetts.*

As required by Chapter 28, Section 13, of the Revised Laws of Massachusetts, entitled "Public Parks, Playgrounds and the Public Domain," the Board of Park Commissioners of the City of Lowell has the honor to submit their annual report.

CLARENCE M. WEED,
Chairman.



RESULT OF BLIZZARD, NOV. 28, 1921. CORNER PARKER AND STEVENS STREETS.

Board of Park Commissioners

1921

CLARENCE M. WEED, 1918-1923

THOMAS F. McKAY, 1919-1924

ALEXANDER E. ROUNTREE, 1917-1922

ROBERT F. MARDEN, 1921-1926

HARVEY B. GREENE, 1920-1925

COMMITTEES

Parks: MR. GREENE, MR. MARDEN, MR. WEED

Playgrounds: MR. MARDEN, MR. GREENE, MR. WEED

Trees: MR. ROUNTREE, MR. McKAY, MR. GREENE

Legislation: MR. McKAY, MR. ROUNTREE, MR. MARDEN

OFFICERS

Chairman

CLARENCE M. WEED

Secretary

ALEXANDER E. ROUNTREE

Superintendent of Parks and Playgrounds

JOHN WOODBURY KERNAN



RESULT OF BLIZZARD, NOV. 28, 1921. CORNER OF HIGH AND EAST MERRIMACK STREETS.

Financial Report

PARKS

Appropriation		\$55,000.00
Additional Appro.		2,000.00
Credits for the year 1921		4,226.44
		<hr/>
Expended for Labor	\$39,657.41	\$61,226.44
Expended for Material and Supplies	21,569.03	
	<hr/>	<hr/>
		\$61,226.44
		<hr/>
Balance		\$ 0.00

SPECIAL APPROPRIATIONS

APPROPRIATIONS FOR ACQUIRING LAND WITH BUILDING THEREON KNOWN AS WASHINGTON PARK FOR PUBLIC PLAYGROUND

Appropriation		\$32,000.00
Expended for Land and Improvement		30,903.67
		<hr/>
		\$ 1,096.33
Set aside account of Washington Park Appro.		\$ 1,096.33
		<hr/>
Balance .....		.00

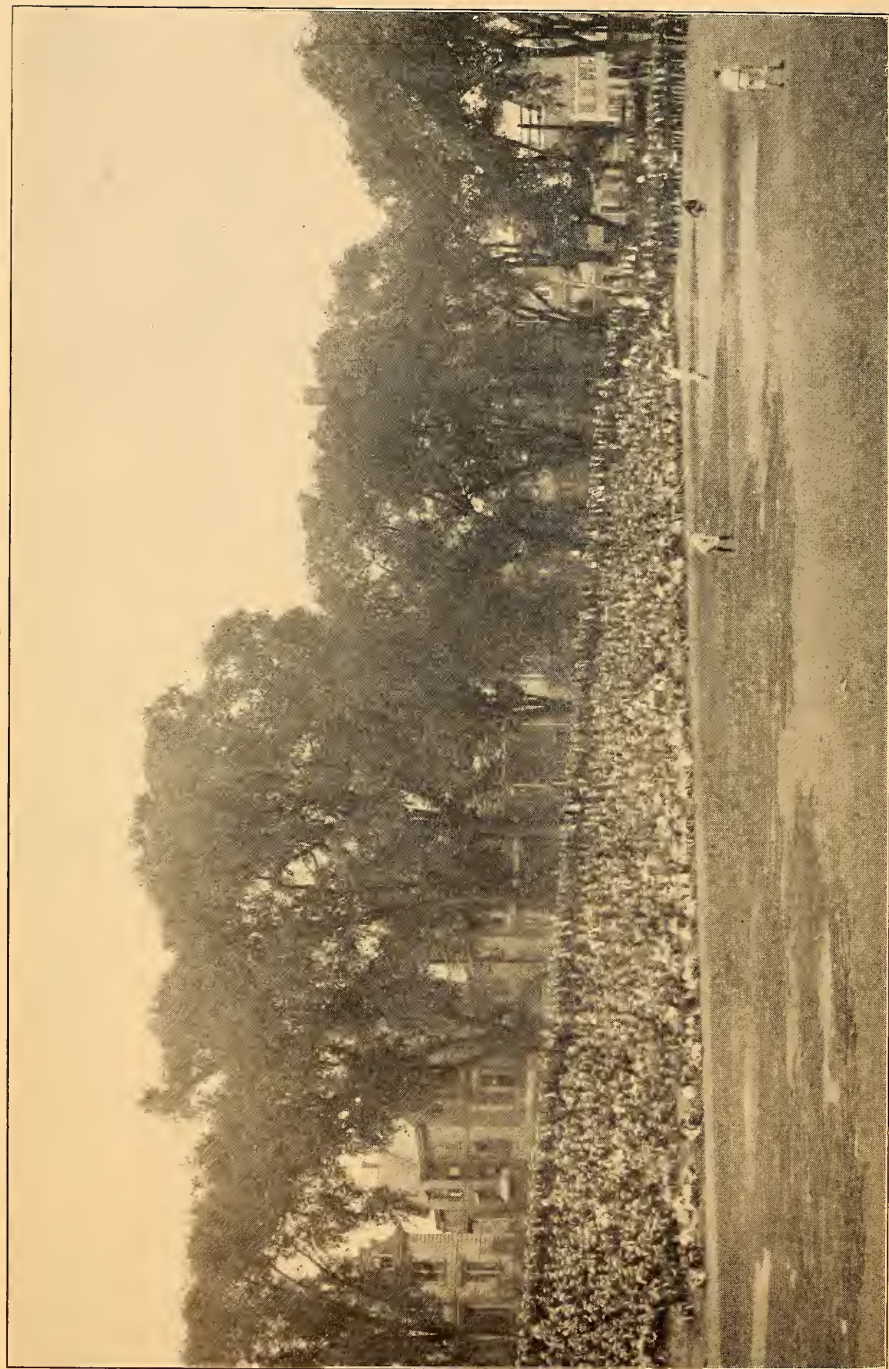
NEW COMFORT STATION APPROPRIATION

Balance, 1921		125.60
Expended for Material and Supplies		45.20
		<hr/>
		\$ 80.40
Set aside account New Comfort Station Appro.		80.40
		<hr/>
Balance .....		.00

BALANCE SHEET — PARKS

Name	Maintenance	Material	Improvement	Total
	\$	\$		\$
Belvidere Park	146.91	70.07		216.98
Cardinal O'Connell Parkway	120.37	151.50		271.87
City Hall and Mem. Bldg. Grounds	382.45	94.23		476.68
Coburn Park	91.70			91.70
Colonial Avenue Riverbank	47.10	28.76		75.86
Fair Grounds	30.39			30.39
Franklin Square	23.62			23.62
Harris Oval	158.84			158.84
Hovey Square	29.81			29.81
Lincoln Park	60.67			60.67
Lucy Larcom Park	5.06			5.06
Mansur Square	32.78			32.78
Monument Square	68.05	100.00		168.05
Mt. Vernon Park	69.21			69.21
North Common	1,598.89		693.10	2,576.03
Parker-Spalding Park	4.50	284.04		4.50
Penniman Square	24.19			24.19
Princeton Square	10.12			10.12
Raven Road Park	48.93			48.93

Name	Maintenance	Material	Improvement	Total
Riverside Park	\$ 39.38			\$ 39.38
Rogers Fort Hill Park	3,782.73	\$ 1,565.82	\$ 8,358.21	13,706.76
Shedd Park	3,104.17	361.58	4,610.01	8,075.76
South Common	2,893.67	353.80	2,413.93	5,661.40
Tyler Park	256.31		2,128.58	2,384.89
Varnum Park	24.74			24.74
Wannalancit Park	136.79	103.00	1,648.83	1,888.62
Water Works Square	19.68			19.68
Washington Park		195.00		195.00
Office	4,039.88	358.35		4,398.23
Stable	13.10	347.79		360.89
Trees	6,876.04	409.89		7,279.93
Bath House	2,444.80	1,682.92		4,127.72
Comfort Station—South Common	1,513.80	102.29		1,616.09
Moving Picture Shows	144.00	680.60		824.60
Playgrounds	3,618.90	903.06		4,521.96
Care of Auto and Truck		1,076.13		1,076.13
Christmas Tree	103.48	428.39		531.87
Police Officers	117.50			117.50
	<hr/>	<hr/>	<hr/>	<hr/>
	\$32,076.56	\$ 9,297.22	\$19,852.66	\$61,226.44

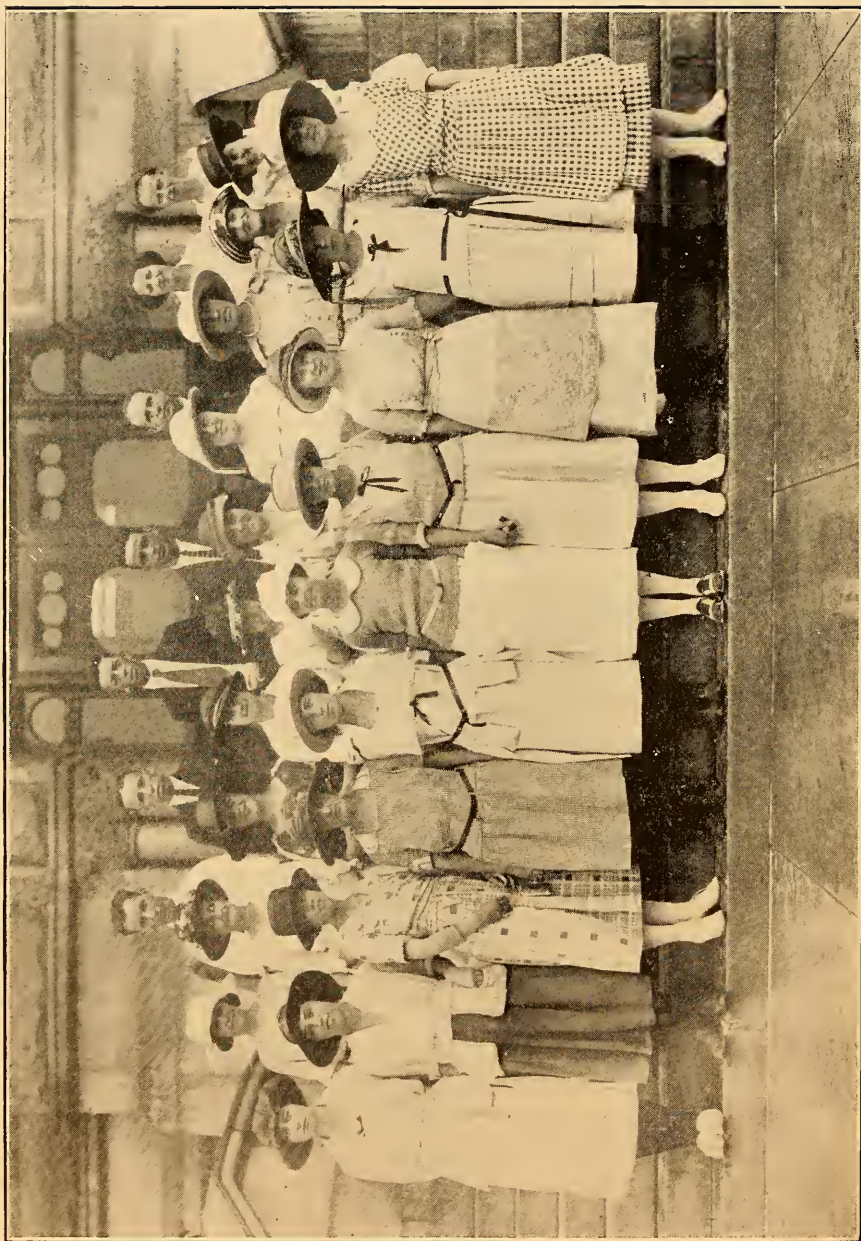


ALONG FIRST BASE LINE, TWILIGHT LEAGUE, 1921

PARK AREAS AND THEIR VALUATION

Belvidere Park	1.77	Acres	\$20,000
Boulevard Park	6.031	"	5,255
Cardinal O'Connell Park	0.114	"	25,844
City Hall and Memorial Grounds	0.50	"	65,700
Coburn Square	0.252	"	1,000
Colonial Avenue Riverbank	3.56	"	2,000
Cor. Rogers and Nesmith Sts.	0.012	"	622
Fayette St. Playground	0.170	"	2,900
Franklin Square	0.058	"	1,500
Glacial Oval			100
Harris Oval	0.12	"	366
Hillside Park	0.061	"	80
Hovey Square	0.010	"	50
Hutchinson Square	0.037	"	150
Lenox Square	0.181	"	1,500
Lincoln Playground	1.525	"	6,000
Lincoln Square	0.016	"	200
*Lucy Larcom Park	0.50	"	21,970
Mansur Square	0.050	"	150
Middlesex Square	0.034	"	200
Monument Square	0.092	"	15,000
Mt. Vernon Park	0.50	"	4,350
North Common	11.39	"	100,000
Parker-Spalding Park	0.043	"	60
Pawtucket St. Park at Northern Canal	0.911	"	6,620
Penniman Square	0.051	"	450
Princeton Square	0.028	"	150
Raven Road Park	0.083	"	180
Riverside Park	0.105	"	184
Rogers Fort Hill Park	34.40	"	150,000
Shedd Playground	56.00	"	50,000
South Common	22.48	"	200,000
Tyler Park	1.81	"	8,000
Varnum Park	0.136	"	6,000
Wannalancit Park	1.018	"	5,150
Water Works Square	0.047	"	500
Washington Park	2.827	"	32,000
Wyman Park	5.22	"	32,088
Total	152.082	"	\$735,419

*Held by the Chairman of the Park Commission and the Mayor as Trustees, not under the direct charge of the Park Commission.



PLAYGROUND STAFF, 1921.

REPORT OF THE Board of Park Commissioners FOR THE YEAR 1921

To Hon. George H. Brown, Mayor, and the City Council:

GENTLEMEN:

I take pleasure in submitting, herewith, the annual report of the Board of Park Commissioners for 1921.

In many respects this year has been the most notable in the history of the Board. It has seen a very unusual development of public recreation in connection with the parks and commons and it has shown that this phase of the City's activity has come to occupy a more important place in municipal government. More people than ever before have made use of these breathing spaces and the necessity of abundant opportunities for recreation for both children and adults has been appreciated by a large proportion of our citizens.

The year has seen an important acquisition to our park system through the acquirement of Washington Park which was purchased by the City late in the year. This area in the heart of a congested district was very greatly needed and will be of large service in the development of our future citizens. There is still serious need for the acquisition of the First Street Oval and of an adequate playground in the upper Highlands. We would respectfully urge upon your attention that the latter district is a very large area with thousands of children whose only opportunities for play are in the street or in vacant lots which are being rapidly built up. The necessity of acquiring a proper area in the immediate future is very urgent.

In addition to the larger parks and commons to which public attention has been hitherto chiefly called, the Board feels more and more the necessity of small play spaces for younger children

in all the congested areas of the City. This seems the only possible way of keeping little children off the streets and avoiding the present sacrifice of children's lives. In nearly every such section there are still vacant lots which could be acquired at small expense.

One of the notable features of the work of the year has been the co-operation of the School Department in carrying on inside the school buildings, work in Manual Training for boys and Sewing and Cooking for girls, in connection with the summer playgrounds. This has proven a very desirable feature of the summer work with children and we hope that it may be continued to a greater extent in the immediate future. We wish to express to the School Committee and the Superintendent of Schools our thanks for their cordial co-operation in this undertaking.

Perhaps the most notable development in connection with public use of our Commons has been the series of baseball games conducted by the Twilight League. These games have proven a great attraction and have brought to the Commons many thousands of people during the early evenings. They have assumed such importance that it seems not only desirable to continue them but to offer greater facilities for them in the way of additional ball fields and better seating arrangements for the people.

The Board has been awaiting with interest the opening of the new Auditorium and it hopes that the opportunity to be offered by this magnificent building for public recreation under municipal auspices may be made the most of. The Park Commissioners feel that the recreational work with both children and adults which is now carried on during the summer season should be continued more or less throughout the year and it hopes that the Auditorium may furnish an opportunity for such an expansion of its program. The members feel very strongly that this civic building should be primarily for the use of the public and that there should be no opportunity for any individual to utilize it as a source of personal gain in running dances or similar entertainments.

The Park Department has received during the year the cordial co-operation of the City Government, the School Committee and the various City Departments. We wish to express to all of these our cordial thanks and also to acknowledge the co-operation in the carrying on of the playgrounds given us by the Chamber of Commerce, Lowell Community Service, the Rotary Club, the Middlesex Women's Club, the volunteers from the League of Catholic Women, and the Girls' City Club. We are also indebted to the newspapers of Lowell for a program of publicity which has greatly aided the carrying on of our work and finally the Board wishes to express to Superintendent John W. Kernan, the Playground Teachers and the various employees of the Department, its appreciative thanks for the harmonious way in which the work of the year has been carried on.

Respectfully submitted,

CLARENCE M. WEED,
Chairman.



RESULT OF BLIZZARD, NOV. 28, 1921. SCENE AT FORT HILL PARK.

Superintendent's Report

To the Board of Park Commissioners,

GENTLEMEN :

I herewith most respectfully submit my annual report of the work done under your direction in the park system for the year ending December 31, 1921.

Thus far, since the Board's existence, it has been the banner year for activities, and work accomplished.

Economy demands that present improvements be of simple character, merely designed to furnish facilities for a more convenient and fuller use of a park, and thus to minister to the comforts and enjoyment of its visitors. Even if there were no limitations as to the cost, however, I have not altered my belief expressed in earlier reports, that the full development of a park is something that should be carried on slowly and with great care. The elaborately artificial attempts at ornamentation and "beautifying" frequently attempted in parks and pleasure grounds have only too often defeated their own purpose, by destroying the glories of their natural setting, and have undoubtedly created a misconception in the minds of many people as to the primary purpose of a "park." It is generally true that the most useful way will be found, after all, to be the most beautiful way, and we must not forget that our first and greatest object is to make these public lands of the greatest possible use and benefit, to the greatest possible number of people. The treatment differs with different areas, and we would hardly look for quite the same degree of informality in a city square, or a small "neighborhood park," as in some picturesque spot, like Shedd Park. In the case of most of our park lands nature has already done by far the greater part of the necessary work for us, and our own labors may be devoted to supplementing her efforts in a simple way harmonious with the natural setting.



BLACK BEAR AT FORT HILL ZOO.

Useful and valuable as are these different areas already secured, I see in them but a fragment of the work that is clearly set for our performance. A few opportunities that in all human probability would never have remained available after this decade, have been utilized, while other projects scarcely less essential, have been daily slipping away or growing more difficult.

So although we have made a showing upon the map, we are brought to realize more and more, both from our own daily experience as we study our project, and from every bit of testimony that comes to us from other cities, that a more comprehensive way must sooner or later be adopted in dealing with a great civic necessity. Since this necessity comes about largely through the growth of the out-lying districts, it may well be considered as one of the necessary penalties of prosperity.

For the future, the work which is required of this department is constantly increasing in difficulty and amount. For instance, in acquiring added tracts to our system; at first rough preliminary plans were all that were desired. Now, accurate topographical maps of large areas must be made; many questions and details in connection with the purchase of land require attention. Deeds must be drawn, the descriptions of which involves considerable work in some cases. A great many projects remain to be studied in a preliminary way, and this work must not be allowed to drop because some excellent additions to our park system might be lost through lack of knowledge of its merits, and the need of haste. It is in the interest of true economy that accurate and sufficient information should be obtained about those projects, in order that no mistake, which would be costly to rectify later, should be made in purchasing land.

During the past year one of the projects which the Board has given much thought and study to, was crowned with success, when the city government passed a loan of \$32,000 for the purchase of Washington Park (so called) situated in what is known as the Lower Highlands. The seizure process was taken advantage of in this case, upon the advice of the City Law Department. This area will take care of a badly congested section of our city, and

will be a boon to the little tots who have had no place to play during the last few years except Middlesex Street, where traffic is beyond normal most of the time. This park in all probability will be laid out as a playground, and Community Center:—being well adapted for same, by reason of its location.

The Board mindful of giving an opportunity to the children in the upper Highlands an equal chance with other sections of the city for play, as well as responding to the requests from many parents; made a tour of the locality; and after deliberation and study of several sites, came to the conclusion that a plot situated on Parker, Stevens and B streets was ideal both as to cost, and geographical center. The land involved, totalled almost five acres, and could be acquired for \$9000, which was the assessed valuation, plus 25 per cent, if taken by right of eminent domain. The taking of this land was advocated strongly by the Board during the first part of the summer, this action being accentuated at that time, before the process of buildings would add to the cost—one having already commenced.

Because of dissension of residents in the vicinity on the location, coupled with the fact that the city was being called upon for much money to be diverted in other directions, the Board finally decided to let the matter drop for the year, although the site had much merit.

With reference to the proposed playstead to be built on First street the Board has been diligently at work on same, giving the matter much thought and study. They have held several consultations with the State Highway Commission, and were finally able to convince them, the desirability of changing the lines of the proposed roadway, so that instead of going diagonally through the middle of the Playstead (spoiling it for all time) they have re-located it, by more closely following the bank of the river. It will now be possible to have a large Park and Playstead almost in the very heart of the city, just as soon as funds may become available.

With a view of doing a little each year of a permanent nature, on Varnum Avenue Parkway, we continued the abutment wall and iron fence along the riverbank, as far as funds would permit. We also set out shrubbery at the bridge-head, on both sides of the square, which will enhance the surroundings considerably.

At Shedd Park, the bank along Knapp Avenue, the contour of which was very irregular, was dressed off, and made more attractive. This work was of some magnitude, employing some forty extra men, and ten teams for a period of eight weeks, and helped solve in a small degree the employment situation in our city, which was acute at that time.

The main roadway leading to the top of Fort Hill was in a bad condition, because no repairs had been made there for many years. I was directed by the Board to rebuild it, using the tar bound penetration type of road. Accordingly we started in the fall, building our sub-grade which entailed the removal of many large boulders, and balancing up our cuts and fills, as well as the construction of drains and catch basins. We purchased our broken stone, delivered on the job, and by so doing made quite a saving. Sufficient stone was delivered to cover the whole job, and rolled ready for the tar treatment. Tarine was used as a binder, and we covered some 600 lineal feet, before the cold weather overtook us, when we were compelled to stop work. By far, the major part of the work was done; and what remains will be completed in the early spring, so that we will have a first class roadway to the top of the hill. This has been a long felt want, especially by motorists, as the top of the hill offers a fine vantage point for viewing the city.

Fronting the park on Rogers street we laid 384.4 square yards of granolithic sidewalk, and rounded off the corner at Hanks street which was dangerous, on account of its sharp angle. It is now in keeping with the adjacent corners.

At Tyler Park 282.9 square yards of granolithic walk were laid along the Westford street front, which will greatly set off this little breathing spot. The walks in the park which were badly

washed out, were regraded with fine cinders, and dressed off with stone dust, and made more serviceable.

During the early summer, our new Comfort Station located on the South Common, was opened to the public and kept open till late in the fall. The hours for its use were from 10 A. M. to 10 P. M. necessitating two shifts of employees. The station was much appreciated by our many patrons of the Common during the summer, as it fills a long felt want.

This year for the first time in connection with the formal observance of Memorial Day fully 15,000 people witnessed the unusual and wonderfully impressive sight of an outdoor solemn high military Mass celebrated on the South Common. To my knowledge, there never has been such an assembly gathered at one time, to assist in honoring the memory of the soldier dead, and seldom if ever has a service of this particular nature been held in the city. Rev. William F. Mahan, O. M. I. had general supervision of the services under the direction of the Lowell Post of the American Legion.

The water was drawn off from the wading pool, and a temporary altar was erected at the southwest end. Here visiting clergymen, gold star mothers, members of the military organizations, veterans and invited guests were seated. There was a church choir of two hundred voices under the direction of Prof. John J. Kelty at the right side of the altar, and nearby was the U. S. Cartridge Band.

The sloping banks of the Common on either side of the pool and the extended area directly in front, furnished generous space for the many thousands who attended. Even then, there were few spots within a radius of three hundred yards that were not occupied. At the close of the Mass a squad from Battery B fired a "Salvo," and then a bugler sounded "Taps."

One of the most striking pictures of the many enacted during the course of the services, came at the close, when the choir with band accompaniment sang "The Star Spangled Banner." The very first strain brought everyone to his feet, and the soldiers at salute, which was held to the very end. It was truly a remarkable sight.

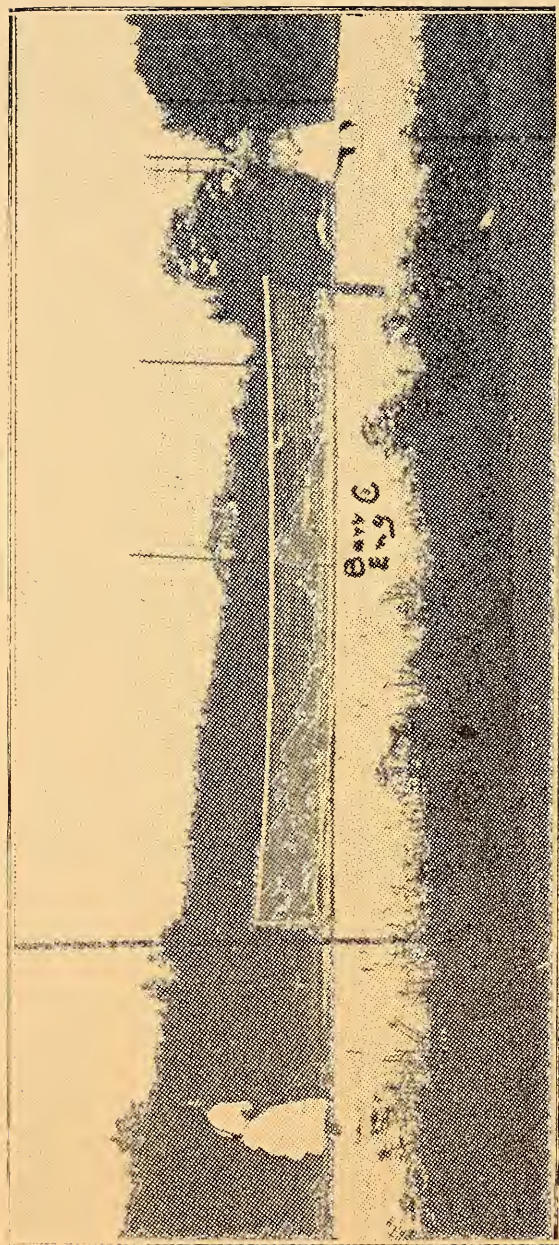
We held our annual Yuletide exercises on Christmas Eve around a large Christmas Tree set in Worthen street in front of City Hall. The tree was decorated with many small colored lights, while in the background all the front windows of City Hall, were aglow with candles. Christmas carols were sung under the leadership of Albert Edmund Brown with a band accompaniment, and the exercises were thoroughly enjoyed by the immense throng present.

PLAYGROUNDS AND RECREATION

The great value of playgrounds and healthy outdoor sports as agencies to combat the tendencies toward social and physical degeneration, which inevitably accompany city life, is sustained by the emphasis placed on these things by many eminent pedagogues, scientists and sociologists. Our public schools are first in combating and delaying the effect of these tendencies. But the valuable physical, mental and social training given by the public schools ends with the majority of children, when they are still in their most plastic stages of development. Their school and playtime is cut short because of the necessity of seeking work in office, factory or shop, there to become a cog in our complex industrial life. The outdoor sports and playgrounds may, and do, at this time furnish the training needed in the children's muscular and neural development.

There is tangible evidence on every playground where the children are co-operating in an effort to accomplish a common object, subjecting themselves at all times to proper authority, law and order. Does this not suggest the kind of training that assists materially in the development of good American citizens? Increasing personal cleanliness, gentle manners and regard for the rights of others, are apparent in no unmistakable manner.

The most important things playgrounds teach are exactly the things children learn in later life. They must learn the value of a community of interests—co-operation; the proper sequence of things—co-operation; in play they soon learn that all must be fair—better still, the bully soon finds joy in helping the weaker,



TENNIS AT SHIELD PARK.

and is proud to become a leader, but a leader for good, not ill. They soon learn to play clean—that is to scorn such things as winning games unfairly. At short, almost unconsciously there is formulated in their minds three of the greatest attributes of life—*self-denial, self-control, self-respect*. Is this not worth while? Yet these things are the result, primarily, of direction, of supervision. The child left unguided acquires vicious habits, and self-indulgence, that only too often prove in later life an education for crime.

It is very evident from the interest manifested, that public playgrounds have come to stay, that this phase of municipal activity should consequently be considered as a business, as well as an Educational Institution, and one that can grow and prosper only insofar as it is built on the solid foundation of efficiency.

The demand for increased playground facilities has reached great proportions in the knowledge of organized games and the general effect of Supervised Play. The essential factor in connection with the playgrounds provided in the administration of public recreation, is the necessity of leadership at all times by trained directors. Without it the playground will fail to compete with the excitement of the streets, and realize its possibilities as a factor in civic and moral training. The success of the playgrounds indicated by the large number of children drawn to them, is a striking evidence that it is the initiative and personality of the play leaders which demonstrates success, more than expensive apparatus. We were extremely fortunate this year in having a very efficient corps of supervisors.

The usual number of grounds were operated for a period of eight weeks. Our apparatus was constantly in use, and many different kinds of games played as well as instructions given in the latest folk dances, which the children enjoyed immensely. Through the folk dances there are many opportunities to educate the social and moral side of the child, and direct the formation of right habits and high ideals.

Story telling was another phase of enjoyment by the children on the playgrounds. They were all eager and anxious at the appointed time for the instructor to start on her task, and would listen with apt attention. A child that has been trained to

appreciate good literature by means of story telling, will develop the power of judging right from wrong, as well as to love the best in literature, one of the greatest gifts a human being can possess.

The industrial side of our playgrounds grows more popular each year. More children were enrolled in the different classes than during the year preceding. Consequently a greater amount of material was used because of the increased interest. The work is not only fascinating in itself, but develops patience, judgment, dexterity and skill. It embodies the satisfaction of making a beautiful and useful article, and arouses the inventive faculties in the child. The articles made were of practical value such as wearing apparel, and decorations for the home.

Courses in Manual Training and Domestic Science were conducted at two of our playgrounds, under the direction of the School Department. These classes were largely attended and the children showed keen interest in them. It is hoped they will be extended another year, to at least one more playground.

Two evening playgrounds were operated in conjunction with local organizations during the summer, one at Charles street, and the other on a lot at the corner of Moody and Hanover streets, For the use of the latter, we were indebted to the Tremont & Suffolk Mill. They were successful and conducted along the lines of our day grounds.

In addition to our directed sports and games, we have many that are not directed by us. Regarding the latter, permits must be obtained from our office for the use of the grounds, as large numbers participate in the skating, tobogganing, baseball, football, soccer and tennis. Our baseball and football fields are in such demand, that I regret more space is not available. A few tennis courts were built this year and proved an attraction, not only for the children but grown-ups as well. They were so well patronized that permits and regulations, will have to be issued another year.

Moving pictures were again shown during the summer months, and proved their popularity by the enormous crowd at every show. All walks of life were represented in the audiences, from the baby in the carriage to the elderly person with cane.

The new daylight saving law made one regrettable feature,—we were unable to start the films until nine o'clock in the middle of the summer, making the closing time too late for the small child. Parents complained, and justly so.

Our Bath House on the Boulevard was again a mecca of attraction for thousands during the hot spells of the summer months. I regret to say that we experienced the loss of bathing suits and towels constantly, and in order to stop same, it will be necessary to employ more help in the future; or else compel patrons to make a deposit covering replacement value, which will be refunded on the return of the suit and towel.

The work of planting and caring for street trees should not be underestimated.

The planting of young trees along the street tends to give to the city a character, which makes a good first impression to a stranger. While we appreciate that this work enhances the beauty of our city, the healthfulness it creates, is even more important.

A few years ago we managed to inaugurate a street tree planting campaign, taking some one street in each section of the city which was practically bare of trees, and setting out young ones. Thus far we have used two species, the Norway Maple and the Pin Oak; both of which seemed to thrive well. Because of our meagre funds we have only been able to set out in the neighborhood of two hundred a year, which is small indeed, considering the fact that one of our sister cities sets out several thousand.

In the matter of trimming and pruning trees it should be done tree after tree along the same street, thus eliminating loss of time going from one job to another. After the pruning, all cuts should be disinfected, preventing entrance of disease and insuring rapid healing. Properly done, all dead wood, interfering branches, and branches hanging lower than ten feet from the sidewalk, are removed. The tops of soft-wooded trees should also be cut back, so as to prevent development of slender heights, thereby growing more sturdy and shapely. No work of this nature by any of the public service corporations or even individuals, is permitted except under our supervision and direction.

On November 28th our city was visited by a severe ice and sleet storm, the like of which few inhabitants have ever witnessed. Trees were even uprooted and many branches and limbs were not only broken off but entangled in a net work of live wires, in all parts of our city. Many valuable specimen trees in our parks were destroyed which time alone can repair.

We started at once to clear up the debris, employing a large force of men and teams. Our progress was slow and in many cases extremely dangerous, owing to the fact that many live wires were down. There were so many limbs and branches broken, that in order to cover the city in the least possible time, no attention was paid to careful pruning; simply removing the broken limbs, and carting the brush to the nearest dump.

I have recently made a survey of the condition of our trees, as the result of the storm and find the elms have sustained the worst damage. This is doubly to be regretted, when one considers that this section of the country is famed for the beauty and magnificence of the elm, and justly so. I have also made a carefully prepared estimate of the damage, and place the amount at \$30,000. It includes the removal of about sixty unsightly large tree butts, which are now standing, as well as the pruning of many tree branches both on our streets and in our parks. It also includes the removal of close to one hundred large trees, that I deem dangerous.

RECOMMENDATIONS.

I respectfully recommend that land on First street be acquired, enabling us to build a first class stadium right in the heart of our city. Delay is dangerous, and an opportunity is now available to own an ideal spot for our city sports. We are way behind the times in such things, as our neighbors all about us have them; and have had, for some few years. Games and sports can be held here, the receipts of which will pay for the money expended on same in less than half a dozen years.

That the new parkway along the riverbank in Pawtucketville be continued insofar as funds will permit.

That a playfield in the upper Highlands be purchased, as the boys now have no place to play, without interference.

That two small lots be acquired making an entrance to Washington Park, from Middlesex street which is very desirable. Also that sufficient funds be made available to develop the ground, and purchase playground apparatus.

That a look-out tower be built at the top of Fort Hill Park, following the lines of those in the Metropolitan Park, at Middlesex Fells and the Blue Hills of Milton.

That our tree campaign of planting as many young street trees as possible be continued, in different sections of the city.

In conclusion permit me to thank the Board for its support given during the year, employees of the department for their faithfulness, the city officials, the playground teachers, the newspapers, and the public in general for the many kind favors rendered; and the spirit of co-operation that has been shown the past year.

Respectfully submitted,

JOHN WOODBURY KERNAN,
Engineer and Superintendent.

SEVENTY-SEVENTH ANNUAL REPORT
OF THE
LOWELL CITY LIBRARY

THIRTY-SECOND REPORT
OF THE
LIBRARY TRUSTEES
OF THE CITY OF LOWELL
MASSACHUSETTS

FOR THE YEAR NINETEEN HUNDRED TWENTY ONE



KILBURN PRINTING COMPANY

OLD GRIST MILL

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ADMINISTRATION OF THE LIBRARY 1921

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JOHN T. DONEHUE, D. D. S.	.	.	" " 1924
EDWARD J. WELCH, M. D.	.	.	" " 1925
HUGH J. MOLLOY	.	.	" " 1926

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ROY FRENETTE	

Superintendent of Reading Room

STEPHEN T. WYMAN

Librarian of Children's Room

ELOISE B. HILLS

REPORT OF THE TRUSTEES FOR 1921

USE OF THE LIBRARY

To the Honorable, the Municipal Council of Lowell:

Gentlemen:—The Trustees of the City Library herewith present their annual report for the year 1921.

The circulation of books for the year shows an increase of 23,668. There were 188,711 volumes taken out for home use in 1921 against 165,043 for 1920. We cannot expect to do much more than this on our present appropriation, and in estimating the comparative use of libraries in Massachusetts cities of about the same size as Lowell comparison should also be made of the amounts available for library purposes in the cities compared. It will be seen from the following figures for 1921 furnished by the Free Library Commission that the Library is costing less in Lowell than in any other of the larger cities of the State.

	Population	Appropriation	Other Income	Total Income
Worcester	179,754	\$105,763.00	\$ 9,255.57	\$115,018.57
Springfield	129,614	96,449.60	19,691.32	116,140.92
New Bedford ..	121,217	52,663.46	18,671.74	71,335.20
Fall River	120,485	55,510.87	1,004.29	56,515.16
Lowell	112,759	24,000.00	4,784.06	28,784.06
Cambridge	109,694	48,747.97	1,157.31	49,905.28
Lynn	99,148	53,923.00	1,677.00	55,600.00
Lawrence	94,270	43,500.00	2,152.02	45,652.02
Somerville	93,091	44,610.00	14,531.41	59,141.41

USE OF THE LIBRARY - Continued

Worcester has 3 branches; Springfield 3; New Bedford 3; Cambridge 5; Lynn 4; Lawrence 4; Somerville 3; Lowell has two Delivery Stations only and no branches.

A comparison of the per capita expense of the Library to the citizens of each city shows that the Worcester library costs 60 cents, Springfield .74, New Bedford .43, Cambridge .44, Lynn .56, Lawrence .46, Somerville .60, Lowell .21.

Lowell should have at least three branch libraries and reading rooms within easy reach of all the people. The Library should be in a position to serve a larger public with a much more adequate supply of books and to furnish books to the schools in much larger quantities.

To maintain a good modern public library system a reasonable annual revenue should be provided.

FINANCIAL STATEMENT

Receipts

Appropriations by Municipal Council	\$24,000.00	
Fines, etc.	1,069.87	
Other receipts	15.59	
Transfers from John Davis Fund	4,766.19	
		\$29,851.65

Expenditures

Salaries	\$18,857.88	
Lighting	647.56	
Binding	1,921.33	
Periodicals	876.41	
Books	27.37	
Sundries—Printing	\$560.20	
Water Tax	43.69	
Express, etc.	255.56	
Supplies	421.86	
Postage	17.42	
Repairs	88.13	
Miscellaneous	822.16	
		\$ 2,209.02
Delivery Stations	545.89	
Expenses of Children's Room, Sunday opening and Books, etc., charged to Davis Fund	4,766.19	
		\$29,851.65

JOHN DAVIS FUND

Income for 1921

Cash on hand at last report.....	\$	.97	
Interest and dividend earnings on invest- ments and loans		4,741.72	
Rebate on Taxes		110.39	
		<hr/>	\$ 4,853.08

Expenditures

Expenses of Children's Room	\$	733.03	
Expenses of Sunday opening		442.44	
Books purchased for the Library		3,590.72	
Cash on hand Dec. 31, 1921		86.89	
		<hr/>	\$ 4,853.08

JOHN DAVIS FUND

List of Securities

Bonds

Name	Due	Rate of Interest	Par Value
Boston & Maine R. R.	1944	4½%	11,000.00
Boston & Maine R. R.	1926	4 %	10,000.00
Boston & Maine R. R.	1929	4½%	5,000.00
N. Y., N. H. & H. R. R.	1954	4 %	10,000.00
Illinois Central R. R.	1952	3½%	10,000.00
Boston & Albany R. R.	1952	3½%	4,000.00
Atch., Top. & Sante Fe	1995	4 %	1,000.00
Hartford, Conn.	1923	4½%	10,000.00
City of Fall River	1926	4 %	4,000.00
City of Baltimore	1958	4 %	5,000.00
City of Waterbury, Conn.	1950	4¼%	4,000.00
Liberty Loan Coupon Bond	1938	4¼%	10,000.00
Liberty Loan Coupon Bond 2d	1942	4¼%	6,000.00
			<hr/>
			\$90,000.00

Railroad Stock

No. Shares	Name of Road	Price Per Share	Amount
41	Boston & Maine (Common)	17	\$ 697.00
1	B. and M. Preferred Stock (Class C)	36½	36.50
39	Boston & Albany	136	5,304.00
1	Nashua & Lowell	125	125.00
			<hr/>
			\$6,162.50

Manufacturing Stock

No. Shares	Name of Company	Price Per Share	Amount
8	Lowell Bleachery	160	\$1,280.00
Miscellaneous Stock			
12	American Tel. & Tel. Co.	120	\$1,440.00
3	Lowell Gas Light Co.	180	520.00
			<hr/>
			\$1,960.00

Bank Stocks

No. Shares	Bank	Price Per Share	Amount
9	Appleton Nat. Bank, Lowell	120	\$1,080.00
3	Old Lowell Nat. Bank, Lowell	112	336.00
2	Wamesit Nat. Bank, Lowell	108	216.00
11	Union Nat. Bank, Lowell	230	2,530.00
10	First Nat. Bank of West Newton	170	1,700.00
			<hr/> \$5,862.00

Savings Bank Book

Bank	Book No.	Amount
Central Savings Bank	35073	\$ 231.88

Mortgage Note

A. H.	\$2,000.00
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Summary of Investments and Cash Assets

	Val, Mar. 1, 1921	Val. Mar. 1, 1922	Increase
Registered Bonds	\$90,000.00	\$90,000.00	
Railroad Stocks	6,142.50	6,162.50	20.00
Manufacturing Stocks	1,056.00	1,280.00	224.00
Miscellaneous Stocks	1,656.00	1,960.00	304.00
Bank Stocks	5,795.00	5,862.00	67.00
Savings Bank Book	221.83	231.88	10.05
Mortgage Notes	2,000.00	2,000.00	
Cash in Bank	829.47	912.84	85.37
	<hr/> \$107,700.80	<hr/> \$108,409.22	<hr/> \$ 708.42

CONDITION OF THE LIBRARY

New volumes purchased during the year	1,384
Volumes added by gift	24
Volumes added by binding periodicals	88
Duplicates purchased	972
Total number of volumes added	2,468
Total number of volumes in the Library	111,009
Periodicals and papers subscribed for	239
Periodicals and papers given	36
Number of volumes used, home and reference	188,711
Number of volumes consulted in the Reference Room	13,153
Magazines circulated	3,448
Library opened, days	303
Total circulation	188,711
Average daily circulation	622
Largest monthly circulation (January)	19,617
Smallest monthly circulation (July)	11,784
Largest daily circulation (January 15)	1,241
Smallest daily circulation (July 14)	147
Percentage of fiction read	78.5
Percentage of other classes	21.5
Children's Room circulation	36,676
Daily average	124

LIST OF DONORS OF 1921

	Vol.
American Olympic Committee	1
American Woolen Co.	1
Anthony, John H.	1
Balch, T. Willing	1
Baylor University	1
Beethoven Association	1
Blizard, Lucy P.	1
Buttrick, E. G.	2
Carter Currie G.	1
Collins, Michael	1
Deaborn (Wis.) Pub. Co.	1
Depew Chanucey M.	1
Free P. L. Commission	23
Felt & Tarrant Mfg. Co.	1
Fritchey, Alfred	1
Hackenbroch, John P.	1
Hershel	1
Hoyt, F. M.	1
Haverhill, P. L.	1
Hill, Edwin C.	1
Hope, A. C.	11
International Boundary Com.	1

LIST OF DONORS OF 1921 (Continued)

Italian State Railways	1
Judge Baker Foundation	1
Jewish Information Office	1
Lamont, Thos. W.	1
Macmillan Co.	1
M. I. T. Library	1
Macbeth-Evans Glass Co.	1
Maynard Mass., Town of	1
Moline Plow Co.	1
National Lamp Works	1
Nietro, Rev. Del	1
Owens Bottle Co.	1
Pearson, Gardner W.	1
Prince, G. C. & Son	2
Philippine Commercial Agency	1
Spargo, John	1
Sec'y of Commonwealth of Mass.	2
State Library of Mass.	11
Traders & Mechanics Ins. Co.	20
Vanderbilt, Cornelius	1
United Fruit Co.	1
Vail, Theo. N. Estate	1
Worden, E. C.	1
Wurlitzer, R. Co.	1

STATISTICS IN FORM ADOPTED BY THE AMERICAN LIBRARY ASSOCIATION

City Library, Lowell, Mass.

Annual Report for Year Ending December 31, 1921.

Population 1920 Census, 112,759.

Free for Lending and Reference.

Two delivery stations, namely one at Davis Square, one in Centralville and several deposit stations.

Main Library open 303 days during the year. 72 hours a week for lending. 72 hours for reading.

Library open Sundays (Oct. to June) for reference and reading 2 to 9 P. M.

Reading Room open Sundays, 9 A. M. to 9 P. M.

Volumes in Library, January 1, 1921	108,541
Added by purchase	2,444
Added by gift	24
Volumes in Library, Dec. 31, 1921	111,009
Volumes of fiction lent for home use:	
Adult 109,113, Juvenile, 26,048, Total	135,161
Total volumes lent for home use:	
Adults 135,434, Juvenile, 36,676; Total	172,110
2723 Borrowers registered during the year. Registration period five years.	
275 Newspapers and Periodicals currently received.	

New Registration with Five Year Limit

Applicants received during the year	2,831
Applicants who did not call for cards	108
Number of names registered Dec. 31, 1921	34,909
Number of names registered Dec. 31, 1920	32,186
Total registered during the year	2,723

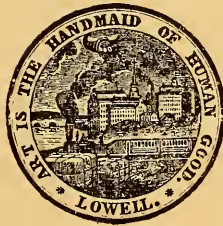
LIST OF JURORS

FOR THE

CITY OF LOWELL

FOR THE YEAR

1922



LIST OF JURORS

A

Abbott, Leon D., 5 Parkview ave., foreman.
Achin, Henry, Jr., 9 Plymouth st., insurance.
Achin, Victor, 749 Merrimack st., dealer.
Adams, John M., 54 Gates st., painter.
Adsit, Alvaro W., 228 East Merrimack st., second hand.
Ahearn, Joseph J. Jr., 16 Leroy st., blacksmith.
Alexander, J. Walter, 774 Moody st., clerk.
Allard, Henry W., 3 Lilley ave., dealer.
Allard, Joseph J., 116 Ennell st., storekeeper.
Allan, David, 64 Epping st., clerk.
Allen, Walter M. N., 39 Elliot st., machinist.
Anderson, August, 23 Lundberg st., operative.
Anderson, Frank A., 59 Lundberg st., chauffeur.
Anderson, Charles E., 1386 Gorham st., molder.
Andrews, John A., 11 So. Whipple st., leatherworker.
Andrews, J. Munn, 256 Andover st., manufacturer.
Archambault, Amedee, 742 Merrimack st., undertaker.
Armistead, Robert R., 126 West Meadow rd., dealer.
Ashton, John T., 60 Orleans st., second hand.
Ashworth, James, 137 Stackpole st., gentleman.
Asquith, Sam, 36 Chatham st., merchant.
Asselin, Charles A., 148 Ennell st., electrician.
Atherton, Charles S., 12 Cheney pl., clerk.
Ayer, Lorenzo A., 557 Varnum ave., gardener.
Ayer, William A., 27 Varnum ave., plumber.
Ayotte, Edward, 83 Salem st., operative.
Ayotte, George Jr., 93 Pawtucket st., machinist.

B

Batchelder, Mark O., 650 Stevens st., overseer.
Bagshaw, Walter H., Jr., 99 Fairmount st., manufacturer.
Balfrey, John, 65 Congress st., shoemaker.
Bancroft, Frank M., 16 Brookside st., motorman.
Barker, Edgar H., 9 Mt. Hope st., instructor.
Barlofsky, Archie, 135 Howard st., clerk.
Barber, Jesse, 8-76 Congress st., bleachery.
Barber, Joseph, 252 Pawtucket st., manufacturer.
Barrett, Andrew E., 77 Mt. Vernon st., merchant.
Barry, Henry, 147 Hildreth st., operative.
Barry, Patrick H., 13 Sycamore st., watchman.
Barry, John H., 15 Lombard st., plumber.
Barry, William A., 34 Laurel st., clerk.
Barry, William J., 4 Hanks st., manufacturer.
Basnett, George B., 625 East Merrimack st., barber.
Bassett, Cyrus R., 32 Meadowcroft st., U. S. C. Co.
Baxter, Frederick J., 34 May st., stock clerk.
Bean, Ralph M., 15 Eighth ave., secretary.
Beane, Thomas J., 104 Pleasant st., life insurance.
Beaudry, Francois, 111 Fulton st., teamster.
Beaulieu, John H., 202 Hildreth st., dealer.
Beauregard, Oliver J., 868 Moody st., clerk.
Beauregard, Wilfred A., 105 Crawford st., contractor.
Beck, Edmond, 107 Warwick st., laborer.
Belanger, Clovis, 768 Merrimack st., solicitor.
Bell, George, 1156 Lawrence st., laborer.
Bell, Frank A., 19 Wachusett st., machinist.
Bellefontaine, Miller, 130 Riverside st., furniture dealer.
Beharrell, Joseph R., 114 Wentworth ave., carpenter.
Berard, Adelard, 577 Middlesex st., expressman.
Bergeron, Albert, 35 Mt. Vernon st., real estate.
Bergeron, Philippe O., 825 Merrimack st., musician.
Bernard, George, 130 Aiken st., dealer.
Bernston, Olof A., 121 Moore st., dealer.
Bernier, Samuel J., 1081 Middlesex st., clerk.
Best, Arthur H., 42 B st., J. C. Ayer Co.
Bibeault, Alfred W., 135 Liberty st., operative.
Bibeault, Alphonse, 21 Wilder ave., stone cutter.

Billingsley, Fred, 320 Wentworth ave., dealer.
Bishop, Herbert L., 28 May st., paymaster.
Bissonnette, John, 47 Mt. Washington st., painter.
Bissonnette, Zephyrin J., 300 Varnum ave., telegrapher.
Bilodeau, Napoleon J., 713 Merrimack st., undertaker.
Bixby, Albert H., 24 Marlboro st., salesman.
Blazon, Donat, 131 Gershom ave., printer.
Blessington, Andrew J., 43 Cedar st., painter.
Blodgett, Emery F., 585 Chelmsford st., bookkeeper.
Blessington, Thomas J., 43 Cedar st., barber.
Blood, Cyrus F., 222 High st., clerk.
Blowen, Herbert, 442 Beacon st., ice cream maker.
Bolan, Edward S., Jr., 24 Shaffer st., barber.
Boland, James J., Jr., 210 Appleton st., merchant.
Bonin, Honore, 90 Aiken st., barber.
Bordeleau, Emile, 865 Moody st., salesman.
Boucher, George H., 125 Dalton st., dealer.
Boudreau, Frank M., 722 Moody st., clerk.
Boudreau, John B., 53 Mt. Hope st., grocer.
Boughton, John L., 146 Chelmsford st., laborer.
Boulais, Arthur N., 8 Dracut st., clerk.
Boulais, Henri J., 8 Dracut st., clerk.
Boule, Lazare, 538 Moody st., operative.
Boulger, John B., 155 Humphrey st., merchant.
Bourdon, Michael, 805 Merrimack st., carpenter.
Bourgeois, Gustave M., 76 Mt. Hope st., clerk.
Bourque, Philip R., 19 Lombard st., carpenter.
Bourret, Charles E., 910 Lakeview ave., plumber.
Bowles, Willis H., 261 Hildreth st., operative.
Box, John W., 7 Lyons st., beltmaker.
Boyd, Joseph F., 21 Chestnut sq., manager.
Branchaude, Alberic A., 15 Dana st., manager.
Branchaud, Charles E., 9 Somerset st., clerk.
Brautigau, Willie, 9 Rockdale ave., operative.
Bradley, William H., 432 Gorham st., machinist.
Brady, Francis, 35 Bartlett st., molder.
Bray, George, 341 Lakeview ave., merchant.
Bray, Richard, 23 Belrose ave., master mechanic.
Brassard, Maurice, 4 Butterfield st., clerk.
Brassard, Henri J., 68 Mt. Hope st., chauffeur.
Breault, Aristide, 18 Cambridge st., packer.

Breen, John P., 9 Lyon st., loomfixer.
Breen, Stephen D., 56 Crawford st., ins. agent.
Brennan, John L., 26 Common st., manager.
Brennan, John J., 14 Edson st., clerk.
Brennan, George F., 31 Crowley st., Lowell Gas. Lt. Co.
Brennan, George F., 521 Dutton st., metal worker.
Brennan, Owen E., 26 Crowley st., hardware dealer.
Brierly, Eugene L., 74 So. Loring st., painter.
Briggan, George F., 22 Royal st., clerk.
Brigham, Charles R., 99 So. Walker st., manager.
Brigham, Charles R., 759 Merrimack st., clerk.
Brimigion, Caleb, 58 Agawam st., bleachery.
Brissette, Rupert N., 5 Crescent st., clerk.
Broadbent, John W., 42 Maple st., weaver.
Brodeur, Arthur, 13 Gold st., clerk.
Brodeur, Arthur J., 546 Middlesex st., clerk.
Brock, Charles F., 47 Seventh ave., clerk.
Brogan, Frank M., 88 Mt. Vernon st., insurance.
Brogan, Joseph A., 80 Mt. Washington st., machinist.
Brosnahan, Patrick H., 796 Lawrence st., dealer.
Brosnan, Patrick T., 38 Second ave., salesman.
Brosseau, Albert, 16 Lawton st., machinst.
Brosseau, Charles G., 43 Essex st., clerk.
Brosseau, Pierre A., 43 Essex st., clerk.
Bourgeois, Gustave M., 76 Mt. Hope st., clerk.
Brown, James T., 53 Tolman ave., operative.
Brown, Patrick J., 198 Cross st., operative.
Brown, Patrick H., 980 Varnum ave., brakeman.
Brown, William J., 23 Chase ave., clerk.
Bruin, Michael J., 81 Mt. Vernon st., janitor.
Brunelle, Oliva, 33 Gershom ave., operative.
Buckley, James H., 23 Starbird st., cigarmaker.
Buckley, John T., 11 Livermore st., painter.
Buote, Michael, 407 Moody st., operative.
Burbank, Percival P., 14 Eighth ave., dealer.
Burbeck, William J., 32 Sheldon st., retired.
Burgoyne, John J., 3 Cedar st. ct., water works.
Burke, Edward N., 216 Nesmith st., retired.
~~Burke, James E., 917 Lawrence st., police~~
Burke, Joseph, 11 West st., weaver.
Burke, William P., 30 Abbott st., watchman.

Burkinshaw, Joseph, 25 Marlborough st., druggist.
Burns, Andrew F., Jr., 22 Second st., barber.
Burns, Francis A., 117 Stackpole st., bookbinder.
Burns, George E., 28 Crowley st., clerk.
Burns, James E., 23 State st., laborer.
Burns, James J., 48 Lincoln st., spinner.
Burns, Charles H., 84 Methuen st., barber.
Burns, Joseph F., 18 Bellevue st., clerk.
Burns, Stephen, 282 Fayette st., operative.
Burns, Thomas, 25 Fulton st., clerk.
Burns, William, 53 Chestnut st., weaver.
Burt, John W., 760 Broadway, beamer.
Burt, Fred K., 52 Hanks st., druggist.
Burt, Walter N., 385 Walker st., clerk.
Butler, John R., 159 Broadway, waiter.
Buttermore, John F., 58 Agawam st., tanner.
Byam, Arnold A., 12 Albert st., real estate.
Byam, Otis, 79 Canton st., milk dealer.
Byam, George A., Jr., 27 Fleming st., real estate.

C

Caddell, Peter M., 94 Viola st., overseer.
Cadorette, Joseph, 118 Ennell st., mason.
Cady, George L., Jr., 150 Mt. Vernon st., box maker.
Cady, Louis, 629 East Merrimack st., park dep't.
Cahill, George W., 259 Worthen st., laborer.
Callahan, Bernard J., 114 Third st., retired.
• Callahan, George T., 122 Humphrey st., advertiser.
Callahan, Phillip H., 82 Beacon st., painter.
Callery, Bartholomew, 9 Bourne st., Health Dept.
Calnan, Cornelius F., 84 Forrest st., U. S. C. Co.
Calnin, Michael J., 882 Gorham st., U. S. C. Co.
Calnin, Martin, 882 Gorham st., U. S. C. Co.
Camire, Evariste A., 753 Moody st., storekeeper.
Cameron, Donald M., 328 Wilder st., manufacturer.
Cameron, James, 105 Georgia ave., dealer.
Campbell, Edward Gaston, 15 Fred st., dealer.
Campbell, Frank J., 711 Westford st., druggist.
Campbell, Frederick L., 53 Keene st., asst. boss.
Campbell, James C., 131 Church st., operative.

Campbell, John H., 53 Keene st., chauffeur.
Cannon, Michael F., 69 Loring st., printer.
Cantin, Eugene H., 104 School st., real estate.
Clark, Joseph M., 35 Oak st.
Clark, T. Frank, 35 Oak st.
Carmichael, James H., 59 Huntington st., overseer.
Caron, Amedee, 99 Ennell st., tailor.
Caron, Joseph, 74 Branch st., carder.
Carragher, Frederick F., 365 Beacon st., laborer.
Carroll, Daniel F., 216 Thorndike st., master plumber.
Carroll, John J., 97 Crawford st., machinist.
Carroll, Joseph P., 780 Chelmsford st., nurse.
Carroll, William A., 97 Crawford st., druggist.
Caron, Thomas, 19 Phoebe ave., operative.
Carufel, Emile, 215 White st., operative.
Casey, James M., 603 Chelmsford st., manufacturer.
Casey, James J., 815 Chelmsford st., salesman.
Cashman, John J., 506 Lawrence st., clerk.
Cashman, Martin F., 68 Varnum st., stage hand.
Cassidy, Frank A., 8 Livermore st., assistant janitor.
Cawley, William F., 85 Rogers st., clerk.
Chaloux, William L., 88 Bartlett st., manager.
Champagne, Eusebe, 455 Moody st., musician.
Chandler, George R., 107 Holyrood ave., teller.
Chapman, Herbert L., 418 Walker st., printer.
Chappell, Francis, 18 Ash st., laborer.
Charron, Edmond J., 142 Grand st., machinist.
Charron, Sylva, 134 West st., chef.
Cheney, Frederick R., 761 Broadway, tannery.
Choate, Albert H., 40 Hawthorne st., drug clerk.
Choquette, Jeremie A., 89 Butterfield st., salesman.
Chouinard, Zenon, 689 Lakeview ave., repairer.
Chretien, Joseph A. N., 159 Ludlam st., floor walker.
Christman, Eustache, 154 Woburn st., grocer.
Claffy, John W., 28 Lawrence st., second hand.
Clapp, C. Harry, 116 Hanks, dealer.
Clancy, Arthur F., 48 Fisher st., conductor.
Clancy, John, 198 Riverside st., dealer.
Clancy, James J., 39 Whipple st., teamster.
Clark, Cornelius E., 228 High st., retired.

LIST OF JURORS

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Clark, George M., 222 High st., moulder.
Clay, Harry E., 12 Orford st., operator.
Cleary, John H., 149 E. Merrimack st., clerk.
Clinton, William H., 27 Bowden st., B. & M. R. R.
Clowrey, John J., 126 Bartlett st., barber.
Coakley, Daniel F., 194 Suffolk st., student.
Coakley, John J., 194 Suffolk st., Saco-Lowell.
Coates, Davis D., 62 Norcross st., foreman.
Cochrane, Delwin A., 32 Maryland ave., clerk.
Coffey, James J., 148 Sanders ave., dealer.
Coffey, Humphrey, 183 Wilder st., provisions.
Coffey, Timothy J., 148 Sanders ave., grocer.
Cogger, John H., 80 White st., printer.
Cogger, Patrick, 438 Riverside st., contractor.
Coggeshall, Frederick H., 38 Nichols st., clerk.
Cognac, Leonce, 153 Avon st., clerk.
Cole, Fred H., 72 East Merrimack st., foreman.
Coleman, Joseph H., 881 Bridge st., painter.
Collins, Cornelius E., 394 High st., real estate and ins.
Collins, Thomas J., 100 Elm Avenue, foreman.
Collins, William E., 145 Andrews st., lather.
Comerford, Fred S., 32 Nineteenth st., salesman.
Concannon, John, 28 Epping st., U. S. Bunting.
Conlon, John J., 20 Broadway, clerk.
Connelly, George T., 32 Griffin st., U. S. C. Co.
Connolly, John F., 108 Agawam st., wool sorter.
Connor, Bernard A., 386 Fletcher st., water works.
Connor, Edward, 48 May st., second hand.
Connor, Francis A., 71 Richardson st., superintendent.
Connors, Charles A., 103 Westford st., clerk.
Connors, Thomas F., 73 Fletcher St., Saco-Lowell.
Connors, William T., 506 Lawrence st., operative.
Conroy, Robert F., 151-153 Appleton st., manager.
Conroy, John, 509 East Merrimack st., operative.
Conroy, John V., 48 Bartlett st., clerk.
Conroy, Thomas, 199 Stackpole st., clerk.
Constantineau, Alexander N., 58 Second ave., painter.
Conway, John T., 169 Sanders ave., express.
Conway, John E. Jr., 4 Billerica st., clerk.
Clouatre, Joseph, 728 Moody st., secretary.
Conway, Richard B., 15 Windsor st., clerk.

Cooney, Dennis J., 649 Westford st., dealer.
Corbett, John H., 14 Burns st., provision dealer.
Corbett, Thomas J., 361 Concord st., salesman.
Corcoran, Joseph F., 40 Fort Hill ave., printer.
Cosgrove, Christopher, 4-32 Pleasant st., agent.
Cossette, P. Napoleon, 33 Wannalancit st., real estate.
Cossette, Jeffrey, 40 Sparks st., dealer.
Costello, Robert E., 497 School st., foreman.
Cote, Charles A., Jr., 52 Coral st., auto livery.
Cote, Eugene J., 71 Third st., loomfixer.
Cote, Herve E., 69 Eleventh st., tinsmith.
Cote, Roaul, 161 East Meadow rd., machinist.
Cottrell, William H., 11 Viola st., printer.
Coughlin, James, 406 Stevens st., shoemaker.
Couture, Joseph, 265 Cheever st., dealer.
Cox, Terence J., 239 Stackpole st., barber.
Coyne, John J., 33 St. James st., salesman.
Craig, Peter R., 59 Porter st., superintendent.
Cottrell, Thomas S., 44 Crowley st., chiropodist.
Creegan, James J., 4 Pollard st., machinist.
Creegan, Michael, 4 Pollard st., janitor.
Craig, Malachy, 136 Moore st., U. S. C. Co.
Crawford, John C., 24 Maitland ave., blacksmith.
Crockett, Harry B., 549 Westford st., clerk.
Crockett, Wallace W., 19 Liberty st., wheelwright.
Cronin, Cornelius F., 344 Varnum ave., real estate.
Cronin, Denis F., 205 High st., waiter.
Cronshaw, John, 17 Gold st., inspector.
Crotty, Timothy F., 137 Pine st., dealer.
Crosby, Burton H., 111 Moore st., mason.
Crosby, Frederick H., 119 Moore st., plasterer.
Crosby, Sterling B., 129 Midland st., real estate.
Crowley, John F., 14 Livermore st., clerk.
Crowley, Robert E., Jr., 115 Fort Hill ave., real estate.
Cruikshank, Alexander, 53 Highland ave., dealer.
Cryan, John, 27 Bourne st., tanner.
Cryan, Thomas E., 132 Grove st., conductor.
Cuff, John H., 18 Agawam st., moulder.
Cuff, Thomas S., 195 Moore st., druggist.
Cull, Thomas F., 249 East Merrimack st., steam fitter.
Cunningham, Clarence, 37 Durant st., steward.

Cunningham, Fred W., 27 Fay st., shuttle maker.
 Cunningham, Henry, 44 West Fifth st., moulder.
 Cunningham, Patrick, 12 Broadway, foreman.
 Cunningham, Samuel S., 129 Moore st., confectioner.
 Curtin, Edward A., 514 East Merrimack st., barber.
 Curtin, Joseph P., 514 East Merrimack st., machinist.
 Curran, John, 14 Mt. Grove st., inspector.
 Cushing, Edward T., 102 3rd st., barber.
 Cushing, Joseph L., 32 Mt. Washington st., manufacturer.
 Cusick, James J., 27 Crowley st., clerk.
 Cutler, John S., 840 Varnum ave., barber.
 Cutter, Benjamin F., 71 Canton st., dealer.
 Cutting, Lawrence F., 78 Methuen st., clerk.

D

Dacey, James, 176 Andover st., clerk.
 Daidy, Michael A., 445 Merrimack st., engineer.
 Daigle, Henri, 103 Daigle st., operative.
 Dalton, Francis M., 55 Nesmith st., stenographer.
 Dailey, John J., 19 North st., operative.
 Daley, Michael J., 48 Floyd st., machinist.
 Daly, John W., 76 Andrews st., clerk.
 Daly, William F., 20 Walden st., insurance agent.
 Danahy, Frank J., 80 Agawam st., plasterer.
 Danahy, James D., 32 State st., plumber.
 Danahy, John J., 22 Crowley st., tinsmith.
 David, Albert W., 234 Gibson st., clerk.
 David, Olier, 22 Dalton st., merchant.
 Davis, Fred M., 47 Lundberg st., clerk.
 Davis, William, 444 Stevens st., retired.
 Dawson, John J., 445 Middlesex st., manager.
 Dawson, Walter F., 230 East Merrimack st., clerk.
 Day, Frank J., 979 Central st., water works.
 Day, James E., 493 Gorham st., agent.
 Day, John F., 15 Auburn st., lamplighter.
 Dean, Elmore T., 59 Westford st., Boston & Maine.
 Dean, Eugene, 203 Salem st., laborer.
 Dean, Eugene F., Jr., 203 Salem st., clerk.
 Dearborn, Lafayette, 12 Totman st., engineer.

Decatur, Herman B., 91 Norcross st., salesman.
Delaney, Thomas B., 92 West st., installer.
Delaney, Michael J., 196 Worthen st., operative.
Delehanty, Thomas F., 93 West Sixth st., machinist.
Delehanty, William H., 592 Gorham st., brewery worker.
Delorme, Charles E., 368 Hildreth st., dealer.
Demaras, Harry, 14 Gilbride ter., constable.
Dempsey, Robert M., 57 Endicott st., operative.
Denault, Nazaire, 223 Christian st., carpenter.
Dery, Donat, 8 Dane ave., shoe worker.
Desaulniers, Oliver L., 14 West Bowers st., clerk.
Descheneaux, Alberic, 179 Mt. Hope st., dealer.
Descheneaux, Louis, 767 Moody st., clerk.
Descheneaux, Omer, 69 Mt. Grove st., dealer.
Deslandes, Ambrose, 78 Queen st., barber.
Desmarais, Edelgard S., 716 Aiken st., dealer.
Desmond, Daniel A., 19 Wright st., dealer.
Desmond, Frederick H., 195 Stackpole st., clerk.
Dewel, Oscar C., 5 Fernald st., B. & M.
Devlin, Arthur A., 307 Thorndike st., stage hand.
Devlin, James P., 43 Willow st., printer.
Devlin, John J., 307 Thorndike st., bowling.
Dextra, Joseph, 518 Merrimack st., barber.
Dexter, Royal K., 319 Wilder st., dealer.
Dickson, David, 142 Smith st., dealer.
Dilts, Edward J., 24 Rutland st., student.
Dilworth, Daniel F., 95 Agawam st., clerk.
Dinneen, Michael J., 25 Oliver st., conductor.
Dion, Georges, 185 Ludlam st., dealer.
Doherty, Henry P., 78 Bridge st., master painter.
Doherty, John J., 14 Hale st., mattress maker.
Doherty, Michael F., 315 Wentworth ave., confectionery.
Dolan, Lawrence E., 61 Chestnut st., weaver.
Donnelly, Edward J., 14 Ames st., real estate.
Donnelly, James E., 36 Floyd st., proprietor.
Donnelly, John F., 13 Newhall st., grocer.
Donnelly, Patrick, 52 Bolton st., machinist.
Donahoe, James H., 45 Coral st., clerk.
Donohoe, Michael J., 3 Brooks st., salesman.
Donohoe, Thomas F., 22 Keene st., weaver.
Donohoe, William Edward, 581 Chelmsford st., shipper.

Donovan, Eugene J., 809 Lawrence st., laborer.
Donovan, Francis, 746 Central st., shipper.
Donovan, Frank L., 746 Central st., U. S. C. Co.
Donovan, John J., 746 Central st., salesman.
Donovan, William H., 26 Madison st., dealer.
Doole, George Lee, 241 Moore st., operative.
Dooley, William H. Jr., 87 Stratham st., salesman.
Doran, Daniel, 354 Princeton st., assistant superintendent.
Doran, Henry F., 363 Dutton st., trimmer.
Dostaler, Frank X., 105 A st., provisions.
Douglass, John H., 137 Pleasant st., lunch cart.
Dow, James G., 149 B st., student.
Dow, Oscar C., 54 Parkview ave., clerk.
Dow, William A., 149 B st., plumber.
Doyle, George J., 15 Whipple st., barber.
Doyle, Stephen R., 533 Dutton st., musician.
Dozois, George H., 11 Spaulding st., instructor.
Dozois, Hector A., 67 Varney st., machinist.
Dragon, Anthony F., 30 Sarah ave., collector.
Drew, John B., 32 Burtt st., dealer.
Drinan, George, 537 Merrimack st., machinist.
Drury, John E., 44 Hanks st., plumber.
Dube, Joseph, Jr., 15 Livermore st., messenger.
Dubuque, George H., 417 Bridge st., clerk.
Dudevoir, Adelard, 520 Varnum ave., plumber.
Duffy, Michael A., 204 South st.,
Duffy, Martin E., 1054 Bridge st., cigar maker.
Duggan, Francis P., (U. S. C. Co.), 26 Agawam st.
Dufresne, Edward P., 14 Wiggin st., clerk.
Dunklee, Fred W., 62 Lundberg st., foreman.
Dunlavey, John C., 415 Worthen st., laborer.
Dunlay, John F., 682 Chelmsford st., truckman.
Dunlay, Patrick F., 16 Corson st., truckman.
Dunn, Charles W., 94 Fort Hill ave., clerk.
Dunn, James J., 16 Ellsworth st., stone cutter.
Dupont, Arthur, 4 Willie ave., fixer.
Durkin, John F., 386 Concord st., printer.
Durkin, Thomas J., 77 New Spaulding st., compositor.
Dursthoff, Charles C., 1500 Gorham st., overseer.
Dusseault, Joseph T., 26 James st., clerk.
Duval, Alfred, 802 Moody st., machinist.

Dwyer, John, 56 Waverley ave., painter.
Dwyer, James A., 312 Thorndike st., salesman.
Dwyer, Timothy J., 580 Gorham st., clerk.
Dyer, John J., 29 Bridge st., mill worker.

E

Egan, Thomas E., 93 Nelson ave., clerk.
Eastham, William J., 159 Chapel st., clerk.
Edwards, Arthur S., 40 Marginal st., dealer.
Eno, Pierre T. A., 35 Race st., agent.
Enwright, George W., 71 W. Richardson st., clerk.
Erskine, Charles M., 25 Clark rd., real estate.
Estabrook, Howard M., 22 Seventh ave., meat cutter.
Estes, Fred A., 715 Westford st., insurance.

F

Fagan, Michael J., 162 Smith st., chauffeur.
Fagan, William H., 4 Rear 592 Gorham st., butcher.
Fahey, William J., 862 Central st., plumber.
Fallon, Andrew J., 108 Meadowcroft st., foreman.
Fanning, John J., 7 Glidden ave., proprietor.
Farley, Harry P., 36 Prescott st., bottler.
Fahey, Edward J., 463 High st., grocer.
Farrell, John M., 2 West View st., auctioneer.
Farrell, Samuel T., 358 Wentworth ave., salesman.
Farrington, John C., 182 Perry st., clerk.
Favreau, Alberic Joseph, 989 Lakeview ave., electrician.
Favreau, Euclide Joseph, 989 Lakeview ave., electrician.
Favreau, Peter Conrad, 989 Lakeview ave., electrician.
Favreault, William A., 190 Pawtucket st., clerk.
Fecteau, Alexis F., 740 Merrimack st., clerk.
Fee, Thomas F., 126 Bartlett st., tailor.
Fels, Max W., 21 Bachman st., clerk.
Fife, James, 46 Merrill st., machinist.
Fife, William F., 23 Sargent st., paver.
Fielding, Albert, 36 Haines ave., pressman.
Fielding, Joseph, 137 Forest st., overseer.

Fielding, Joseph E., 637 Chelmsford st., merchant.
Filion J. Anaclet, 348 Hildreth st., jeweler.
Finlay, William D., 204 Moore st., metal worker.
Finnegan, Frank J., 15 Crane ave., collector.
Finnegan, Daniel T., 11 Sidney st., teamster.
Finnegan, Timothy D., 22 Agawam st., laborer.
Fitzgerald, Frank P., 1121 Lawrence st., clerk.
Fitzgerald, Thomas J., 55 Grove st., dealer.
Flannery, Charles Thomas, 132 Pleasant st., conductor.
Flather, Frederick A., 68 Mansur st., treasurer.
Fleming, Samuel, 35 Methuen st., bootmaker.
Flood, James H., 118 Bartlett st., dealer.
Flynn, Eugene, 160 Agawam st., second hand.
Foisey, Joseph A., 327 Hildreth st., baker.
Foisey, Philip, Jr., 24 Gorham st., cook.
Fontaine, Edmond P., 17 Second ave., insurance.
Fontaine, Emery, 17 Second ave., operative.
Fontaine, George E., 54 Mammoth rd., operative.
Ford, William N., 15 Harding st., janitor.
Forgays, Harold J., 24 Sidney st., salesman.
Forest, Charles M., 30 Sanders ave., lumber dealer.
Forrest, Telesphore, 859 Lawrence st., tannery.
Fortier, Joseph M. G., 36 Riverside st., watchmaker.
Fortin, Antoine, 903 Moody st., clerk.
Foye, Charles H., 182 South st., clerk.
Foye, Daniel E., 195 B st., dealer.
Foye, John J., 469 Pine st., dealer.
Foye, William P., Jr., 127 Durant st., salesman.
Frawley, David F., 66 Eustis ave., glazier.
Frain, John J., 106 Rock st., barber.
Frazer, Thomas W., 52 Parker st., driver.
French, Albert F., 213 Park View ave., manufacturer.
French, Vernon A., 334 Mammoth rd., auto livery.
Frost, Charles E., 285 Princeton st., pedlar.
Frye, Austin A., 105 Eighteenth st., druggist.
Fuller, George B., 1524 Gorham st., lumber man.
Fullerton, Robert J., 17 Dutton st., second hand.

G

Gaffney, Everett M., 26 Third st., clerk.
Gagnon, Joseph A., 67 Mt. Hope st., dealer.
Gale, George Henry, 64 Lane st., loomfixer.
Gallagher, Charles A., 85 Gershom ave., inspector.
Gallagher, George, 275 Fayette st., track layer.
Gallagher, James J., 168 Cumberland rd., cigar store.
Gallagher, Thomas J., rear 34 Coburn st., clerk.
Galley, Arthur C., 17 Winthrop ave., draughtsman.
Galley, Calvin L., 17 Winthrop ave., carpenter.
Galley, John E., 36 B st., carpenter.
Galvin, Patrick A., 168 Lawrence st., clerk.
Galvin, William H., 535 Lawrence st., fireman.
Gamache, Emile, 9 Rhodora st., grocer.
Gardner, John J., 17 Waterford st., merchant.
Gargan, Frank, 48 Fremont st., operative.
Gargan, William J., 22 Ware st., bricklayer.
Garland, Arthur W., 27 So. Loring st., railroad clerk.
Garrick, Frederick D., 858 Bridge st., tinsmith.
Garrity, Edward F., 20 Broadway, machinist.
Garrity, James P., 38 London st., police.
Garvey, Thomas F., 144 Cumberland road, cigar maker.
Gaudette, Arthur, 125 Dalton st., dealer.
Gaudette, George, 1117 Middlesex st., teamster.
Gaudette, Octave, 44 So. Loring st., wholesale confectioner.
Gauthier, Alfred J., 36 Lilley ave., blacksmith.
Gelinas, Victor, 94 Ford st., grocer.
Gendreau, Flavien, Circuit ave., tannery.
Genereux, Hildege, 15 James st., clerk.
Genest, Arthur, 475 Varnum ave., contractor.
Gerow, David, 769 Chelmsford st., hay and grain.
Gilbo, Bernard, 78 Gates st., machinist.
Giblin, John J., 176 Ennell st., musician.
Gilbert, Franz S., 50 Laurel st., overseer.
Gildee, James B., 35 Oak st., clerk.
Gill, Homer J., 28 Walker st., clerk.
Gilman, Albert I., 20 East Pine st., foreman.
Gilroy, Frank A., 40 Middlesex st., printer.
Giroux, Frederick, 156 Riverside st., machinist.
Gilcreast, William J., 43 Forest st., clerk.

Gionet, Aime, 158 Fourth ave., insurance.
Giroux, Arthur H. R., 794 Moody st., insurance.
Gleason, John N., 60 Andrews st., machinist.
Gleason, William F., 60 Andrews st., foreman.
Goldberry, Bernard, 61 Howard st., city.
Golden, John F., 8 Butterfield st., clerk.
Gonzales, Havier L., 126 Gorham st., cutler.
Goodwin, William B., 111 Chestnut st., organist.
Gookin, John J., 15 Aberdeen st., manager.
Gordon, George W., 61 Loring st., carpenter.
Gormley, Joseph H., 11 Lyon st., insurance.
Gordon, J. Eugene, 68 Canton st., undertaker.
Gorman, James E., 566 Westford st., shoe dealer.
Gosselin, Joseph N., 540 Moody st., Bolter.
Gott, Paul M., 605 Bridge st., butcher.
Grady, John J., 576 School st., laborer.
Grady, Patrick A., 51 Barclay st., operative.
Grant, Richard J., 25 Seventh st., dealer.
Gray, Daniel L., 353 Bridge st., barber.
Gray, Harry, 93 Dover st., provision dealer.
Gray, John J., 236 Plain st., real estate agent.
Green, John J., 86 High st., laborer.
Green, Oliver H. P., 16 Spaulding st., carpenter.
Gregoire, Edouard, 86 Ottawa st., insurance agent.
Griffin, William J., 73 Fletcher st., manager.
Guilbeault, Albert, 28 Robert st., operative.
Guild, Chester A., 21 Eighteenth st., linotyper.
Guimond, Adelard, 1847 Middlesex st., brakeman.
Gulline, Percy, 197 Pawtucket st., mfr.
Guyette, Walter E., 372 Parker st., real estate.
Glaucy, Peter J., 560 Broadway.

H

Hackett, David J., 16 Crawford st., Water Works.
Haggart, Daniel L., 60 Bartlett st., mule spinner.
Haggerty, Joseph, 125 Grove st., telegrapher.
Haggerty, Michael, 171 Powell st., blacksmith.
Hale, Aura L., 94 Butterfield st., foreman.
Hale, Milo W. Jr., 25 3rd st., clerk.

Haley, Edward J., 47 Swift st., operative.
Haloreen, John J., 809 Lawrence st., clerk.
Halstead, Charles W., 259 Princeton st., elec. lt. station.
Hamel, Alfred, 100 Shaw st., checker.
Hamil, Bernard, 199 Mammoth rd., mason.
Hanahan, Frederick C., 17 Phebe ave., machinist.
Handley, Edward J., 279 Appleton st., clerk.
Handley, John, 7 Merrill st., painter.
Harkins, John J., 14 Walnut st., machinist.
Harley, Philip, 43 Crosby st., operator.
Harriman, John, 517 Chelmsford st., overseer.
Harrington, Charles P., 474 Gorham st., real estate.
Harrington, Michael, 47 Warnock st., operator.
Harrison, Joseph W., 566 School st., overseer.
Hart, Daniel J., 52 Colonial ave., master baker.
Hart, John E., 86 West st., janitor.
Hart, John J., 336 East Merrimack st., conductor.
Hartigan, Chester T., 137 Moore st., shipper.
Hartigan, Thomas F., 137 Moore st., folder.
Hartnett, John J., 105 Liberty st., operative.
Harrison, Fred, 442 Stevens st., overseer.
Harrison, Clifton B., 16 Bellevue st., machinist.
Hart, Eli B., 125 Cross st., secretary, American Legion.
Hartley, Francis S., 49 Keene st., Saco-Lowell.
Hartwell, George W., 25 Delmont ave., police.
Harvey, Joseph, 843 Moody st., master plumber.
Harvey, Ralph J., 4 Runels place, proprietor.
Hayes, Daniel, 73 Fletcher st., salesman.
Healey, John W., 31 Crowley st., operative.
Hearn, James, 50 Corbett st., watchman.
Hebert, Elzear R., 772 Moody st., clerk.
Hemman, Richard C., 245 Stevens st., cashier.
Henry, Daniel P., 116 Fort Hill ave., truckman.
Hessian, Thomas F., 30 Cippewa st., machinist.
Hetu, Hermisdas, 12 Dane ave., second hand.
Hey, William, 26 Mill st., molder.
Hickey, Cornelius, 10 Walnut st., clerk.
Hickey, Patrick, 24 Cedar st., driver.
Hickey, Walter H., 643 Westford st., foreman.
Higgins, Daniel E., 50 Walnut st., machinist.
Higgins, John J., 135 Andrews st., undertaker.

Higgins, Joseph J., 84 Mt. Washington st. grocer.
Higgins, Patrick, 50 Walnut st., machinist.
Higgins, William F., 51 Abbott st., undertaker.
Hiland, Michael, 25 Ash st., operative.
Hill, Frank B., 27 Bellevue st., dealer.
Hill, James G., 24 Myrtle st., painter.
Hilliard, William B., 22 Webber st., machinist.
Hoar, Martin J., 31 London st., folder.
Hoar, Michael H., 161 Walker st., insurance.
Hoar, Patrick J., 183 Ennell st., barber.
Hodgson, Thomas B., 1195 Lawrence st., steamfitter.
Hodnott, Richard A., 622 Stevens st., B. & M.
Hogan, James A., 36 Cosgrove st., provisions.
Holden, Thomas J., 36 Prescott st., clerk.
Holmes, George H., 17 Shaffer st., clerk.
Holmes, Percy, 837 Lakeview ave., wool sorter.
Hopkins, Harry A., 190 A st., musician.
Hosmer, Cecil N., 147 Andrews st., clerk.
Houde, Theotime, 27 Sarah ave., clerk.
Howell, Wakefield D., 69 Nichols st., clerk.
Howes, George E., 131 Varnum ave., salesman.
Hoyle, Albert, 128 Mt. Hope st., plumber.
Hughes, Joseph, 105 So. Highland st., grinder.
Hudson, Frank W., 82 Billerica st., manager.
Hudson, Harry E., 82 Billerica, proprietor.
Hudson, James E. A., 11 Hazeltine st., conductor.
Hull Frank B., 606 Stevens st., foreman.
Humphrey, Arthur B., 1161 Bridge st., sales stable.
Humphriss, Frederick G., 70 Smith st., oiler.
Humphrey, Edson K., 43 Bellevue st., foreman.
Humphriss, Herbert H., 70 Smith st., machinist.
Hunt, Leonard D., 234 Cabot st., overseer.
Huntington, Edward W., 69 Stevens st., clerk.
Hylan, John B., 28 Nesmith st., gentleman.
Hyde, Daniel, 42 Humphrey st., machinist.

I

Ingham, Fred, 62 Robbins st., dealer.
Ineson, William H., 1 Hampshire st., loom fixer.
Irwin, John M., 53 St. James st., confectioner.
Irish, Alanson E., 137 Stackpole st., clerk.

J

Jackson, John S., 120 Gates st., clerk.
Jalbert, Joseph, 100 Fourth ave., contractor.
Jean, Amedee, 39 Melvin st., retired.
Jennings, Joseph, 859 Lawrence st., retired.
Jennings, Joseph C., 33 South Whipple st., dealer.
Jensen, Otto, 23 Webber st., receiver.
Jewett, Frank E., 1281 Middlesex st., dealer.
Jodoin, Augustus J., 28 Campaw st., operative.
Jodoin, Joseph H., 23 Claire st., machinist.
Johnson, Francis, 494 Lawrence st., real estate.
Johnson, John H., 35 Barasford ave., carpenter.
Johnson, Joseph H., 1 West View st., police.
Johnson, Michael J., 328 Suffolk st., organist.
Johnson, Thomas J., 183 Wilder st., clerk.
Johnston, Alexander, 173 Stackpole st., baker.
Johnston, William S., 173 Stackpole st., baker.
Jones, Edwin F., 93 West Sixth st., decorator.
Jones, Fred E., 440 Westford st., druggist.

K

Kane, Joseph P., 84 So. Highland st., clerk.
Kane, Michael H., 49 Chapel st., Water works.
Kearns, George, 192 School st., clerk.
Keegan, William L., 595 Wilder st., police.
Keefe, Michael A., 34 Broadway, chauffeur.
Keenan, William F., 15 Otis st., bleachery.
Kelleher, John J., 7 So. Whipple st., provisions.
Kelleher, Michael, 111 Agawam st., driver.
Kelley, Edward L., 604 Central st., mechanic.
Kelley, Thomas L., 44 Boylston st., Mass. mills.
Kelley, Thomas F., 578 Andover st., clerk.
Kelley, William A., 16 Sargent st., dealer.
Kelley, William M., 32 John st., janitor.
Kenefick, William, 215 Stackpole st., engineer.
Kenney, John P., 15 Lenox st., clerk.
Kenney, Frank, 207 West 6th st., gardener.
Kennedy, James J., 24 Ash st., manager.

Kennedy, Thomas H., 128 Third st., barber.
Kernan, John W., 78 Gates st., supt.
Kew, Loring R., 266 Princeton st., dealer.
Keyes, Henry J., 47 Twelfth st., clerk.
Keyes, Thomas, 694 School st., plumber.
Keyes, Patrick, 45 Waugh st., dealer.
King, Frank V., 4 Astor st., machinist.
King, John J., 329 Concord st., machinist.
King, Walter F., 205 Stackpole st., clerk.
King, Joseph D., 67 Bartlett st., lather.
King, Arthur F., 205 Stackpole st., electrician.
Kirance, James H., 32 Crosby st., leather worker.
Kirane, John H., 32 Crosby st., clerk.
Kirane, Joseph M., 28 Walnut st., leather worker.
Kirwin, John W., 919 Lawrence st., nickel plater.
Kirwin, Thomas J., 919 Lawrence st., operative.
Kittredge, Horace V., 34 Third ave., mason.
Kivlan, John H., 73 Moore st., bookkeeper.
Knapp, Fred L., 76 Florence ave., clerk.
Knowlton, Harry W., 24 Monadnock ave., draughtsman.

L

Labrie, Eugene, 772 Merrimack st., manager.
Laflamme, Gerdia J., 1036 Middlesex st., clerk.
Lafleur, Frederick, 1081 Middlesex st.,
Lafleur, Harvey A., 44 West Meadow rd., collector.
Lajoie, Ovila, 722 Merrimack, dealer.
Lambert, Maurice J., Jr., 342 Westford st., dealer.
Lamberton, John A., 114 So. Loring st., editor.
Landers, Charles J., 27 Wamesit st., printer.
Landry, Edward W., 15 Gershom ave., clerk.
Landry, Arthur Ernest, 17 Gershom ave., clerk.
Lapoint, Bonnie E., 41 Nichols st., International.
Lapoint, Martin, 41 Nichols st., harness maker.
Larochelle, Elzear J., 28 White st., reporter.
La Rock, Joseph, Jr., 57 Marshall st., operative.
Larivee, John B., 19 Dana st., conductor.
Larose, Alfred, 37 Clark st., clerk.
Latham, Frank, 587 Stevens st., clerk.
Laurin, Carl G., 40 Lundberg st., stone cutter.

Lavelle, Raymond J., 282 Appleton st., advt. solicitor.
Lavery, James A., 295 Appleton st., clerk.
Lavallee, Henry, 75 Gershom ave., jeweler.
Lavelle, Rosario, 59 Crawford, jeweler.
Laurenson, John E., 6 rear 536 Gorham st., waiter.
Lavoie, Arthur, 114 Ford st., grocer.
Lawton, Frederick J., 131 Franklin st., chauffeur.
Lawton, William J. Jr., 131 Franklin st., laborer.
Laycock, Joseph G., 38 Crowley st., chemist.
Leary, Daniel, 118 Mt. Washington st., plumber.
Leary, Dennis F., 339 Lincoln st., real estate dealer.
Leary Jeremiah F., 99 Pleasant st., janitor.
Leavitt, Harry W., 1172 Lawrence st., operative.
Lecam, Joseph H., 30 Haines ave., clerk.
Lebrun, Nelson J., 192 Pawtucket st., clerk.
Lee, John J., 147 Gershom ave., salesman.
Lee, Robert J., 55 Laurel st., machinist.
Lee, Michael A., 64 Bartlett st., carpenter.
Leggat, Horatius B., 137 Wentworth Ave., teacher.
Lemkin, Morris, 5 Hampshire st., dealer.
Lepine, Maxime, 184 Ennell st., manager.
Leveille, Arthur, 122 Mt. Washington st., clerk.
Lindquist, William F., 11 Rockingham st., machinist.
Livingston, Cornelius, 202 Gibson st., paymaster.
Loranger, Louis, 18 Arlington st., clerk.
Loranger, Zephirin, Jr., 263 East Merrimack st., clerk.
Lozeau, Napoleon M., 45 Endicott st., clerk.
Lull, George E., 11 Nesmith st., merchant.
Lussier, Ferdinand, 83 Lilley ave., operative.
Lussier, George H., 903 Moody st., operative.
Lussier, Joseph A., 28 Grand st., machinist.
Lussier, William O., 9 Bowers st., machinist.
Lyle, James E., 356 East Merrimack st., jeweler.
Lynch, Thomas J., 8-33 So. Whipple st., laborer.
Lynch, Patrick, 159 Walker st., barber.
Lyons, Harry D., 52 Queen st., car shops.
Lyons, John K., 6 Watson ave., pin maker.
Lyons, Maurice Timothy, 41 St. James st., motorman.
Lyons, Richard, 48 Prospect st., foreman.

M

Mack, John F., 294 East Merrimack st., clerk.
Mackenzie, Daniel W., 292 Wilder st., dealer.
Madden, James H., 38 Keene st., janitor.
Magee, John J., 169 High st., grocer.
Magras, Joseph, 763 Moody st., clerk.
Maguire, George F., 280 High st., grocer.
Maguire, John E., 45 Whipple st., janitor.
Maguire, Martin H., 106 Agawam st., U. S. C. Co.
Maguire, Philip F., 57 Sidney st., weaver.
Maguire, Patrick J., 35 Mead st., retired.
Mahan, James F., 57 Beaulieu st., slater.
Mahan, William H., 28 Cambridge, dealer.
Mahoney, John J., 74 Elm st., oiler.
Mahoney, John P., 37 Laurel st., dealer.
Mahoney, Thomas, Jr., 46 Butterfield st., clerk.
Major, Frank A., 60 Rea st., second hand.
Maloney, William, 97 Pleasant st., clerk.
Maloney, James R., Pleasant st., laborer.
Maloney, John J., 37 Fort Hill ave., barber.
Malorey, Frank A., 694 School st., stone mason.
Moloney, Myles P. Jr., 18 A st., conductor.
Manseau, Z. Vidal, 101 Westford st., clerk.
Marchand, Joseph P., 18 Sargent st., machinist.
Marchand, George E., 15 Harding st.
Markham, Michael J., 78 Chauncey ave., dealer.
Martell, Hormidas J., 799 Moody st., supt. wire works.
Marden, Philip S., 11 Fairview st., managing editor.
Markham, John J., 11 Floyd st., laborer.
Martin, Edward F., 39 Durant st., retired.
Martin, John H., 196 Mt. Pleasant st., merchant.
Martin, John F., 282 High st., clerk.
Martin, Mizael, 500 Moody st., tailor.
Mason, Charles, 21 Belle ave., machinist.
Masson, Lewis, 21 Belle ave., machinist.
Matte, Edmond, 930 Moody st., tinsmith.
Matthews, George A., 1154 Lawrence st., operative.
Matthews, Nath'l W. J., 2 rear 17 So. Whipple st., printer.
Maxwell, John F., 124 Hanks st., overseer.

May, Thomas, 1406 Varnum ave., gate tender.
Mayberry, Solomon S., 54 Jenness st., real estate.
Mayo, Frederick R., 114 Bartlett st., sub. letter carrier.
McAler, James E., 129 Llewellyn st., clerk.
McAloon, Fred F., 14 Pleasant st., weaver.
McAloon, John B., 112 Sixth st., weaver.
McAlvin, Henry J., 6 Favor st., teamster.
McAvoy, Thomas, 1 Fowler rd., dealer.
McCaffrey, John H., 186 Pleasant st., carpet weaver.
McCann, John, 71 Agawam st., wool sorter.
McCann, Patrick, 412 Lincoln st., dresser.
McCarthy, Bartholomew, 18 Dempsey place, dresser.
McCarty, Charles, 413 Walker st., proprietor.
McCarron, Anthony, 566 Rogers st., grocer.
McCartin, Patrick, 116 Pleasant st., conductor.
McCarty, John P., 9 Pihl st., machinist.
McCarthy, John P., 744 Merrimack st., operative.
McCarty, Martin D., 93 Cosgrove st., tanner.
McCarthy, Timothy F., 28 Butterfield st., clerk.
McCormick, John E., 108 Livingston ave., clerk.
McCullough, John, 281 High st., grocer.
McDonald, John J., 208 Mt. Hope st., second hand.
McDonough, Edward, 184 South st., undertaker.
McGovern, Frank, 28 Fort Hill ave., janitor.
McElholm, William H., 465 Westford st., plumber.
MacDonald, Paul R., 47 Swift st., machinist.
McElroy, George T., 157 Agawam st., painter.
McElholm, James F., 53 Crowley st., electrician.
McEnaney, Frederick F., 187 Pleasant st., claim agent.
McEvoy, Arthur M., 104 Tenth st., student.
McFadden, Thomas, 53 Corbett st., tanner.
McGauvran, Wm. H., 118 Mt. Washington st., merchant.
McGenniss, James, 23 Read st., insurance.
McGilly, Edward A., 75 Hoyt ave., banker.
McGilly, Patrick, 75 Hoyt ave, wool sorter.
McGlinchey, Michael, 84 Manchester st., grocer.
McGreevy, Eugene E., 216 Foster st., clerk.
McHugh, Michael F., 258 Merrimack st., clerk.
McHugh, William E., 77 Fremont st., compositor.
McIninch, Robert J., 39 Chestnut sq., presser.
McKenna, George B., 13 Cosgrove st., undertaker.

McKenzie, Collin H., 23 Methuen st., clerk.
McKeon, James E., 37 Orchard st., clerk.
McKenna, George T., 12 West Adams st., conductor.
McKenzie, Charles T., 140 Methuen st., cartridge shop.
McKenzie, Leo J., 140 Methuen st., carpenter.
McKenzie, Herbert J., 140 Methuen st., water dept.
McKinnon, Kenneth, D., 1175 Lawrence st., clerk.
McLaughlin, Francis P., 16 Keene st., machinist.
McLaughlin, Walter F., 45 Fay st., second hand.
McLaughlin, William P., 16 Keene st., auto machinic.
McMahon, Frank, 28 Willie st., clerk.
McMahon, Joseph F., 452 Chelmsford st., plumber.
McMahon, Joseph H., 23 Fourth ave., conductor.
McMahon, Joseph M., 28 Willie st., chef.
McMahon, William H., 30 3rd ave., steamfitter.
McNabb, John H., 108 Pleasant st., laundry.
McNamee, Charles A., 48 Mt. Vernon st., chef.
McNulty, Frank B., 38 We. Fifth st., clerk.
McNulty, John F., 255 Thorndike st., hostler.
McOsker, Frank, 576 School st., waiter.
McOsker, George M., 17 Liberty st., barber.
McOsker, James F., 27 Grace st., tool maker.
McQuaid, Arthur F., 11 Westchester st., fixer.
McQuade, Daniel E., 600 Andover st., dealer.
McQuade, Hugh B., 10 Pleasant st., second hand.
McQuade, John F., 700 Chelmsford st., ins. agent.
McQuade, Arthur J., 197 Pleasant st., loomfixer.
McSorley, Christopher, 400 Concord st., clerk.
McSorley, John F., 332 Wentworth ave., dealer.
McVey, James H., 21 Liberty st., foreman.
McVey, William F., 24 Linden st., clerk.
Meehan, Edward J., 289 Concord st., teamster.
Mehan, Frank G., 26 Cosgrove st., stonecutter.
Mehan, John P., 26 Cosgrove st., granite cutter.
Mehan, Joseph P., 196 Westford st., clerk.
Mellen, Patrick, 33 Fort Hill ave., clerk.
Meloy, Frederick F., 30 Fort Hill ave., contractor.
Mercier, Chester, 284 Stevens st., clerk.
Merrill, Herbert C., 157 Nesmith st., chemist.
Merritt, William H., 262 Concord st., retired.
Mevis, George B., 869 Bridge st., merchant.

Michaud, Albert J., 35 Essex st., manager.
Miller, Charles H., 13 Harrison st., conductor.
Minahan, James H., 74 Aiken ave., operative.
Miskell, John P., 138 Cross st., B. & M.
Miskell, Martin J., 292 East Merrimack st., theatrical.
Mitten, Anthony D., 43 A st., blacksmith.
Mueller, George A., 91 Willie st., clerk.
Muldoon, Owen, 259 Branch st., laborer.
Molloy, Andrew, 294 Riverside st., Lowell Water Works.
Molloy, James E., 94 High st., cutter.
Molloy, James J., 18 Marginal st., clerk.
Monahan, Owen A., 63 Orchard st., city messenger.
Monahan, Patrick R., 38 West Fifth st., teamster.
Monette, Hector, 14 Eustis ave., teamster.
Monier, Raoul H., 34 Beaulieu st., floorwalker.
Moody, Percy H., 48 Florence ave., clerk.
Moran, Dennis J., 17 Burlington ave., wire worker.
Moran, John Jr., 40 Alder st., machinist.
Moriarty, James J., 511 Lawrence st., clerk.
Morrissey, Frank T., 46 Albion st., dealer.
Mosley, Harry, J., 24 Viola st., superintendent.
Mortimer, William E., 1204 Lawrence st., clerk.
Mulcahy, M. Wilfred, 109 Rogers st., dealer.
Mulligan, John J., 49 Bartlett st., loomfixer.
Mullin, Frank, 14 Lundberg st., electrician.
Mullin, J. Eugene, 6 Bleachery st., insurance.
Mulcahey, Thomas E., 1219 Middlesex st.
Mullane, Daniel J., 163 Agawam st.
Mullaney, Michael, 4 Litchfield ter., plumber.
Mullaney, John J., 25 Varneif st., plumber.
Mulno, Harry O., 324 Boylston st., superintendent.
Mullen, Leon H., 33 Bourne st., clerk.
Mullen, Joseph, 23 Burt st., merchant.
Murphy, Edward Dennis, 12 Chippewa st., clerk.
Murphy, Frank Jr., 52 Central st., laborer.
Murphy, James F., 35 Potter st., laborer.
Murphy, George E., 66 Main st.,
Murphy, James A., 86 Hanks st., overseer.
Murphy, John Joseph, 25 State st., N. Y., N. H. & H. R. R.
Murphy, Joseph F., 278 High st., printer.
Murphy, Thomas B., 185 Moore st., B. & M. R. R.

Murphy, Thomas F., 189 Parker st., plumber.
Murphy, William J., 74 Agawam st., dealer.
Murray, Benjamin C., 313 Worthen st., machinist.
Murray, Frank, 86 Fourth ave., blacksmith.
Murray, John, 139 Chapel st., clerk.
Murray, John J., 128 Hoyt ave., clerk.
Murray, Justin J., 18 Dempsey place, salesman.
Murray, Martin, 30 Cosgrove st., U. S. B. Co.
Myers, James W., 21 Albert st., assistant superintendent.
Myrick, Adam W., 483 School st., electrician.

N

Needham, Charles W., 615 Chelmsford st., carpenter.
Neeson, John J., 210 Cross st., machinist.
Nelson, John A., 528 Andover st., supt.
Nestor, Patrick F., 348 Stackpole st., lamplighter.
Nicholls, Henry J., 338 Varnum ave., gardener.
Noonan, John J., 219 Salem st., salesman.
Normandin, Charles, 34 Hancock ave., tailor.
Noval, Maurice H., 449 Moody st., barber.

O

Oates, William, 44 Crawford st., machinist.
O'Beirne, Thomas, 704 Merrimack st., operative.
O'Brien, Charles T., 59 Bartlett st., laborer.
O'Brien, Daniel J., 90 Park View ave., real estate.
O'Brien, John J., 161 Pleasant st., slater.
O'Brien, Joseph H., 236 Salem st., clerk.
O'Brien, William H., 94 Fort Hill ave., retired.
O'Connell, John J., 61 Newhall st., undertaker.
O'Connell, Luke, 64 Fay st., retired.
O'Connell, Richard A., 505 Westford st., dealer.
O'Connell, William E., 183 Stackpole st., goldsmith.
O'Connell, William T., 188 South st., clerk.
O'Connor, Edward F., 251 Moore st., grocer.
O'Connor, Frederick F., 102 Pleasant st., clerk.
O'Connor, John A., 102 Pleasant st., tanner.
O'Connor, James H., 4 Dempsey place, foreman.

O'Connor, John, 102 Pleasant st., tanner.
O'Connor, John J., 298 Riverside st., contractor.
O'Connor, John J., 24 Fay st., insurance.
O'Connor, **Maurice**, 197 School st., laborer.
O'Connor, Thomas F., 823 Lawrence st., agent.
O'Dea, Daniel, 68 Church st., dealer.
O'Dea, Gilmore, 68 Church st., chauffeur.
O'Dea, John B., 68 Church st., clerk.
O'Dea, Michael, 1 Rear 530 Lawrence st., finisher.
O'Donnell, Martin, 85 West Union st., telephone.
O'Dwyer, Jeremiah J., 144 Midland st., conductor.
O'Grady, James Francis, 247 Gorham st., salesman.
O'Hagan, Bernard, 491 Gorham st., clerk.
O'Hagan, Michael, 29 Albion st., operative.
O'Hearn, Thomas B., 282 Riverside st., contractor.
O'Keefe, William, 321 Lawrence st., merchant.
O'Keefe, William F., 323 Lawrence st., machinist.
O'Loughlin, William, 198 Worthen st., Clerk.
O'Neil, Arthur J., 261 Concord st., clerk.
O'Neil, Charles H., 198 Worthen st., tinsmith.
O'Neil, James J., 29 Crowley st., cashier.
O'Neil, John J., 23 Cedar st., laborer.
O'Neil, Peter, 120 Bowden st., carpenter.
O'Reilly, Timothy P., 32 High st., barber.
Orcutt, Frank A., 26 Read st., stable.
Orrell, Ernest R., 19 Hillside st., machinist.
O'Shea, Frank L., 149 Concord st., clerk.
Osterhout, Fred S., 123 Westford st., commercial traveler.
O'Sullivan, Bartholomew, 516 Lawrence st., U. S. C. Co.
O'Sullivan, James, 105 Mt. Washington st., retired.
O'Sullivan, Timothy F., 195 Cross st., manager.
O'Toole, John, 287 Appleton st., clerk.

P

Palmer, Forrest E., 1 Barton ave., bookkeeper.
Paradis, Peter A., 526 School st., barber.
Paradis, Robert C., 164 Third st., reporter.
Parent, Philius, 180 Tremont st., machinist.
Patenaude, Charles S., 233 Walker st., engraver.
Parthenais, David A., 30 Phillips st., clerk.

Patten, Henry N., 42 Florence ave., bookkeeper.
Payette, Adelard, 20 James st., retired.
Payette, Joseph, 31 Gershom ave, tailor.
Payne, John, 181 Stackpole st., dealer.
Pascall, Frederick, 58 Carlisle st., machinist.
Perkins, Paul L., 240 Jewett st., auditor.
Perkins, Stuart, 75 Howard st., barber.
Perreault, Arthur C., 132 Bartlett st., tanner.
Perreault, Oscar A., 18 Rose ave., clerk.
Perron, Joseph, O., 215 Princeton st., barber.
Person, Nils, 82 London st., carpenter.
Phelps, John L., 1-29 Boynton st., carpenter.
Phelps, Thomas J., 142 Bellevue st., foreman.
Phinney, Albert W., 7A st., surveyor.
Phornare, Anthony, 35 Burns st., clerk.
Pickering, Samuel A., 59 Hastings st., carpenter.
Pickering, George L., 37 Butterfield st., carpenter.
Pinkham, Arthur S., 27 Harrison st., publicity manager.
Plaisted, Burton W., 110 Warwick st., clerk.
Poissant, Hector, 136 Dalton st., dealer.
Pollard, Harry G., 96 Mansur st., merchant.
Power, Warren M., 73 Fletcher st., editor.
Powers, John, 125 Cross st., driver.
Preston, Charles R., 39 Elliott st., civil engineer.
Primeau, John, 883 Lakeview ave., motorman.
Proctor, Charles S., 187 Hovey st., paper dealer.
Proctor, Frank D., 248 Foster st., clerk.
Putnam, Alonzo, Jr., 19 Eighth ave., salesman.
Peltier, Willis, Jr., 803 Moody st., jeweler.

Q

Quealey, William C., 29 Willie st., laborer.
Queenan, Eugene C., 48 Varney st., clerk.
Queenan, James J., 271 Concord st., clerk.
Queenan, John H., 26 Broadway, clerk.
Quigley, John M., 62 Inland st., teamster.
Quigley, Joseph P., 51 Crawford st., painter.
Quinlan, James J., 418 Chelmsford st., conductor.
Quill, Daniel, 9 Alma st., barber.
Quinn, Daniel A., 29 Bridge st., electrician.

Quinn, Felix, Jr., 67 Bartlett st., laborer.
Quinn, George Patrick, 24 Lyon st., clerk.
Quinn, Michael J., 11 Eighth st., electrician.
Quinn, Patrick John, 379 Broadway, machinist.
Quinn, Timothy, 109 Sherman st., foreman.
Quirbach, Henry C., 21 Fairfax ave., cigar maker.

R

Racette, John, 527 Moody st., manufacturer.
Rafferty, William, 85 Branch st., salesman.
Randlett, Fred M., 445 Merrimack st., dealer.
Ready, Francis E., 221 Hildreth st., carpenter.
Reidy, Patrick J., 26 Saratoga st., tanner.
Ready, William B., 10 Bertha st., barber.
Reardon, Michael D., 21 Crowley st., laborer.
Redding, John P., 63 Adams st., shoe worker.
Redding, William, Jr., 82 Read st., clerk.
Reed, William E., 13 Blinkhorn ave., clerk.
Regan, Michael, 26 Andover st., laborer.
Renaud, Louis, 49 Cambridge st., clerk.
Reinstierna, Torsten, 43 Sidney st., wool sorter.
Regan, Michael J., 649 School st., motorman.
Regan, Denis, 27 Windsor st., checker.
Reed, Charles F., 56 Lincoln st., engineer.
Reilly, Peter W., 137 Hovey st., printer.
Reynolds, Michael, 139 Chapel st., expressman.
Ricard, Francis Xavier, 420 Fletcher st., jeweler.
Richards, Charles H., 23 Fort Hill ave., collector.
Richards, James P., 18 Walnut st., opr.
Richards, Lyman H., 93 Crawford st., shoe cutter.
Richter, Roy, 25-29 Lawrence st., clerk.
Richburg, William H., 232 Varnum ave., shoe cutter.
Riley, Charles, 65 Chestnut st., smoke inspector.
Riley, James F., 22 Ash st., clerk.
Riley, John J., 21 Franklin st., salesman.
Riley, Luke J., 101 Third st., barber.
Riley, Patrick, 159 Broadway, machinist.
Riordan, William F., 42 Arlington st., dealer.
Rivet, Francis L., 484 Moody st., dealer.

Roach, Andrew F., 22 Ash st., dealer.
Roche, Patrick Francis, 85 Moore st., bookkeeper.
Roark, James S., 210 Parker st., plumber.
Roark, John J., 210 Parker st., clerk.
Roarke, Joseph F., 412 E. Merrimack st., clerk.
Roarke, Thomas J., 315 Worthen st., clerk.
Roarke, Peter J., 365 Lawrence st., laborer.
Robertshaw, Gilbert H., 33 Warnock st., clerk.
Robertshaw, Henry, 33 Warnock st., attendant.
Robertshaw, John, 33 Warnock st., machinist.
Robertson, Abel P., 75 Smith st., foreman.
Robertson, William L., 468 Andover st., merchant.
Robertson, John L., 470 Andover st., furniture dealer.
Robinson, William S., 40 Crowley st., U. S. Co.
Rochette, Louis Victor, 730 Merrimack st., student.
Rochette, Ralph A., 730 Merrimack st., student.
Rock, Martin, 18 Shaffer, chauffeur.
Rogers, John F., 29 Cedar st., undertaker.
Romain, Isaac B., 49 Norcross st., machinist.
Rooney, John J., 238 Pine st., superintendent.
Rooney, James H., 238 Pine st., dentist.
Rourke, John, 9 Sixth ave., janitor.
Rousseau, Willie, 14 Spaulding, dealer.
Rousseau, Arthur, 14 Spaulding, carpenter.
Rousseau, Napeoleon C., 332 East Merrimack st., clerk.
Roux, J. Arthur, 19 White st., contractor.
Rowe, Thomas H., 97 Varney st., clerk.
Rowland, Charles T., 5 Belmont st., wholesale grocer.
Roy, Joseph G., 87 Chestnut st., salesman.
Royal, Garrett, 32 Phillips st., operative.
Runels, George H., 240 Gibson st., real estate.
Runels, Ralph Earle, 4 Harland ave., dealer.
Russell, John L., 17 Victoria st., manager.
Ryan, Arnold J., 90 D st., retired.
Ryan, Patrick, 46 Birch st., clerk.
Ryan, Stephen J., 73 Stevens st., hatter.
Robbins, George L., 20 Willow st., engineer.
Ryan, Matthew A., 25 Auburn st., helper.
Ryan, William F., 25 Auburn st., helper.
Rynne, Michael, 76 Elm st., clerk.

S

Sadlier, Charles P., 46 Keene st., tanner.
Sadlier, George E., 46 Keene st., clerk.
Sadlier, Frederick A., 46 Keene st., clerk.
Sadlier, Paul V., 46 Keene st., clerk.
Safford, Arthur T., 266 Andover st., engineer.
Sadlier, John A., 46 Keene st., laborer.
Salmon, William, 166 Ludlam st., laborer.
Sanderson, George H., 173 Ennell st., operative.
Sanderson, George W., 137 Stackpole st., clerk.
Sargent, George A., 49 Andover st., lineman.
Sarre, Louis, 834 Westford st., dealer.
Sarre, Leon E., 842 Varnum ave., picture framing.
Saunders, Thomas A., 325 Mammoth rd., agent.
Sawyer, Mark H., 49 Pine st., engineer.
Sayers, John T., 129 Summer st., conductor.
Savard, Aime E., 311 Mammoth rd., baker.
Savard, John B. Jr., 717 Middlesex st., machinist.
Scannell, William J., 62 Cambridge st., boiler maker.
Schloss, Charles C., 24 Harris ave., dealer.
Scott, John, 732 Stevens st., janitor.
Scott, William C., 257 Appleton st., machinist.
Scribner, George A., 158 Westford st., machinery dealer.
Sealey, Elbridge N., 120 High st., engineer.
Secord, Freeland, 3-49 Wilder st., D. L. Gage Co.
Senter, Arthur H., 238 Cabot st., carpenter.
Sharkey, John W., 8 Carter st., salesman.
Sharkey, Michael J., 517 School st., real estate dealer.
Shaw, James, 169 Merrimack st., clerk.
Sheehan, James A., 30 Fort Hill ave., clerk.
Sheehan, Michael J., 105 Andrews st., conductor.
Sheehy, James, 3 Pleasant st., provision clerk.
Short, Harry W., 185 Branch st., machinist.
Sicard, Jean B., 130 Avon st., dealer.
Silcox, Samuel, 19 Robert st., machinist.
Simard, George, 21 Gershom ave., operative.
Slattery, Charles D., 73 Pleasant st., clerk.
Slattery, Edward F. Jr., 122 Hoyt ave., real estate.
Smith, Charles P., 314 Nesmith st., real estate.

Smith, Chester F., 250 Foster st., travelling man.
Smith, Edward A., 425 Broadway st., machinist.
Smith, Henry A., 42 Mansur st., insurance.
Smith, Henry, 37 Varnum st., barber.
Smith, Omer J., 78 Aiken st., janitor.
Smith, Thomas M., 159 Sayles st., clerk.
Smith, William J., 34 Bartlett st., operative.
Smithson, Angelo L., 5 Myrtle st., overseer.
Somerset, Alfred J., 104 Woodward ave., clerk.
Soucie, William, 511 Bridge st., salesman.
Southam, Brook, 130 Westford st., overseer.
Spellissey, John, 35 Butler ave., L. B.
Spellissey, John, 35 Butler ave., laborer.
Spence, George T., 236 Chelmsford st., mfr.
Stanley, Harry L., 135 Beacon st., coal dealer.
Starr, George S., 144 High st., weaver.
Stearns, Frank K., 122 Eleventh st., laundry.
St. Hilaire, Arthur, 110 Ford st., operative.
St. Hilaire, James, 15 Second ave., mason.
Sturtevant, Augustus L., 32 Brookside st., clerk.
Stafford, William, 787 Moody st., clerk.
Stewart, Arthur A., 12 Chester st., instructor.
Stickney, Charles, 599 School st., inventor.
Stowell, Matthew J., 140 Pleasant st., clerk.
Stowell, Frederick C., 112 Concord st., fireman.
St. Jean, Guillaume, 23 Crawford st., L. W. W.
St. Peter, Edmund F., 159 Fletcher st.,
Surprenant, Joseph S., 812 Merrimack st., dealer.
Silcox, Albert E., 45 Dunfey st., machinist.
Sullivan, Cornelius F., 224 Methuen st., police.
Sullivan, Daniel, 105 Moore st., merchant.
Sullivan, Daniel J., 453 Parker st., conductor.
Sullivan, Daniel T., 223 Stackpole st., dealer.
Sullivan, Dennis F., 145 Chelmsford st., salesman.
Sullivan, Eugene, 123 Hampshire st., tailor.
Sullivan, Eugene P., 84 Maple st., primer.
Sullivan, George S., 33 Butterfield st., clerk.
Sullivan, James E., 785 Broadway, dealer.
Sullivan, John E., 58 Corbett st., B. & M. R. R.,
Sullivan, John J., Jr., 114 Beech st., agent

Sullivan, Michael J., 57 Hampstead, grocer.
 Sullivan, Richard H., 8 Bachelder pl., teamster.
 Sullivan, Thomas, A. D., 28 Grove st., dealer.
 Sullivan, William H., 724 Bridge st., fish dealer.
 Sullivan, William J., 17 Bowers st, plumber.
 Sykes, Richard, 17 Rockingham st., overseer.

T

Taft, Joseph W., 235 Stackpole st., clerk.
 Tarrent, Edward J., 836 Central st., laborer.
 Taylor, Harold S., 672 School st., clerk.
 Tansey, John F., 322 East Merrimack st., coachman.
 Taylor, Samuel A., 12 Chase ave., watchman.
 Tellier, Alderic, 236 White st., clerk.
 Thibeault, Archie, 20 Melton st., clerk.
 Thomas, George A., 118 Branch st., boilermaker.
 Thomas, John, 45 Tolmon ave., teamster.
 Thomas, Robert R., 24 Loring st., electrician.
 Thompson, James A., 68 Grove st., box manufacturer.
 Thompson, Martin B., 242 Cabot st., overseer.
 Thompson, Samuel H., 121 School st., hardware.
 Thorpe, James, 100 Riverside st., treasurer Glass Co.
 Thyne, Martin J., 32 Cady st., laborer.
 Tighe, Leo B., 56 Franklin st., weaver.
 Tobin, Richard N., 521 Dutton st., machinist.
 Toomey, Eugene F., 170 Lawrence st., clerk.
 Tracy, James H., 147 Concord st., laborer.
 Tremblay, Onesime, 15 James st., operative.
 Trepanier, J. Edmond, 11 Willie ave., piper.
 Trull, George T., 752 Andover st., student.
 Turcotte, Arthur L., 553 Fletcher st., clerk.
 Turcotte, Louis P., 553 Fletcher st., dealer.
 Turcotte, Oswald, 37 Ellis ct., baker.
 Tully, John J., 533 Lawrence st., clerk.
 Tuttle, Clinton P., 17 Wedge st., clerk.
 Tuttle, Joseph T., 3 Dane ave., clerk.
 Turgeon, Philippe, 50 Chestnut st., machinist.
 Twohey, Edward, 14 Madison st., contractor.
 Tyler, William H., 30 Epping st., gardener.

V

Vandenberg, William C., 246 Andover st., insurance.
Van Hise, Albert, 46 Bellevue st., pattern maker.
Viney, William B., 7 City Hall ave., clerk.
Voisard, Hector, 99 White st., clerk.
Vaughn, John H., 14 Leverett st., boiler maker.

W

Wadleigh, Jude C., 305 Andover st., mill agent.
Walker, George H., 153 Winthrop ave., clerk.
Walker, Hugh G., 18 Pihl st., clerk.
Walker, Thomas C., 80 Chestnut st., druggist.
Walker, William H., 125 D st., loomfixer.
Walsh, James Joseph, 68 Willow st., operator.
Wamsley, John, 666 School st., clerk.
Warnock, Frank A., 13 Wamesit st., plasterer.
Watson, Henry L., 84 Rolfe st., printer.
Watson, John, 18 Roper st., plumber.
Watson, Peter, Jr., 84 Rolfe st., printer.
Welch, Benjamin F., 160 Shaw st., foreman.
Welch, Richard J., 543 Andover st., plumber.
Welch, John F., 70 Livingston ave., plumber.
Welch, Martin F., 64 Pleasant st., tanner.
Welch, Frederick F., 30 Riverside st., cabinet maker.
Wells, Arthur M., 11 Harding st., watchman.
Westall, William E., 63 Dover st., merchant.
Weston, Charles F., 32 Colonial ave., belt maker.
Westwood, John S., 40 Smith st.,*druggist.
White, Frank P., 940 Central st., tanner.
White, James A., 154 A st., agent.
White, John F., 75 Boynton st., clerk.
White, Win. T., 86 Belmont ave., manufacturer of leather.
Whitney, Walter, 8 Livermore st., machinist.
Whittier, Stephen T., 57 Fairmount st., paymaster.
Wilde, J. Harold, 40 Warnock st., clerk.
Wilder, William F., 20 Huntington st., plumber.
Willman, Clarence T., 13 Olive st., spinner.
Winn, John J., 29 So. Whipple st., mattress maker.

Wood, James H., 181 E. Merrimack st., barber.
Woods, Joseph W., 76 Compaw st., conductor.
Worsnick, Robert S., 850 Lakeview ave., spinner.
Wyman, Alonzo, 60 Fort Hill ave., machinist.
Wyman, Stephen T., 185 Stackpole st., city library.

Y

Yates, Robert, 28 Willie st., chauffeur.
Young, Charles F., 625 Central st., decorator.

Z

Ziskind, David, 75 Gates st., dealer.

Election Commission.

HUGH C. McOSKER,
THOMAS H. BRADEN,
JOSEPH H. MAGUIRE,
J. OMER ALLARD,

Clerk.

ANNUAL REPORT
OF THE
POLICE DEPARTMENT
OF THE
CITY OF LOWELL
MASSACHUSETTS



1921

ANNUAL REPORT

OFFICE OF THE SUPERINTENDENT OF POLICE,

Lowell, Mass., March 16, 1922.

HON. GEORGE H. BROWN,
Mayor of Lowell,
Lowell, Massachusetts.

DEAR SIR :

I most respectfully present to you a report of the work performed by the police department for the fiscal year ending December 31, 1921.

Respectfully yours,

WINFRED C. MACBRAYNE,
Superintendent of Police.

The organization of the police department for the year ending December 31, 1921, was as follows:

Superintendent, Deputy Superintendent, two Captains, one Inspector, six Lieutenants, eight Sergeants, two Police Women, one hundred thirty-six Patrolmen, twenty-four Reserve Officers, one Electrician, one Lineman, five Chauffeurs, one Matron, one Stenographer, one Operator, and one Charman.

Population, estimated 125,000. Area, 14.1 square miles.

Accepted Streets, 144.08 miles. Unexcepted Streets, 73 miles.

Appropriation for the year, \$305,086.52.

APPOINTMENTS

The following reserve officers were appointed to the regular force during the year 1921:

- Aug. 30, 1921 John Mahan, Clyde R. Aldrich, Michael F. Rynne, Alfred J. Killoy, William P. Nelson, Francis E. Ready, Thomas H. McGreevey.
Nov. 1, 1921 Walter E. J. Conway, Andrew W. Hunter, Isadore J. Trudel, John T. Sayers.
Dec. 31, 1921 William J. Brennan, Ara Ruiter, John F. Lynch, William F. Liston.

RESERVE FORCE APPOINTMENTS

The following named were appointed to the reserve force during the year 1921:

- Sept. 19, 1921 Charles A. Ganley, William F. McBride, Thomas J. Nelson, Daniel P. Brennan, Edward J. Barrett.
Nov. 1, 1921 William J. Furey.
Dec. 31, 1921 John H. Graham, Charles J. Dillon, Charles L. Gallagher, Paul J. Hartley.

RETIREMENTS

The following officers were retired on half pay, and placed on the pension list during the year 1921:

- Jan. 1, 1921 Thomas F. Coleman.
Feb. 19, 1921 William H. Grady.
Feb. 19, 1921 Eloie N. Breault.

PROMOTIONS

Aug. 18, 1921 Patrolman James J. Kennedy promoted to Sergeant.
Patrolman Michael H. Winn promoted to Sergeant.
Sergeant George B. Palmer promoted to Lieutenant
Lieutenant David Petrie promoted to Captain.

RESIGNED

July 7, 1921 William T. Caveney resigned from reserve force.

NECROLOGY

Jan. 9, 1921 Chauffeur Carl Noyes died. He was appointed a hostler Sept. 1, 1908. Promoted to patrol driver Jan. 16, 1910; Patrol Chauffeur Jan. 1, 1911; Pensioned, Sept. 15, 1920.

April 27, 1921 Captain James Brosnan died. He entered the service Oct. 9, 1888; Promoted to regular patrolman Mar. 4, 1890; Appointed Sergeant May 21, 1895; Promoted to Lieutenant July 15, 1896; Commended in Special Order No. 2; Commended in General Order No. 15, Dec. 9, 1897; Appointed Acting Supt. of Police August 18, 1909; Relieved of the duties of Acting Supt. October 13, 1909; Assigned to Criminal Bureau March 9, 1910; Promoted to Captain March 28, 1911; Commended for important arrest April 9, 1913.

June 23, 1921 Former Patrolman William H. Grady died. He entered the service March 30, 1881; Promoted to regular Oct. 25, 1881; Commended in General Order No. 10 Aug. 7, 1897; Commended in General Order No. 26 Sept. 2, 1899; Detailed to enforce liquor laws Oct. 10, 1909; Detailed to patrol duty Jan. 5, 1914; He was pensioned Feb. 19, 1921.

Nov. 5, 1921 Patrolman John E. Conway died. He entered the service Nov. 30, 1897. Appointed to regular force Oct. 23, 1899.

Dec. 16, 1921 William J. Kenney died. He entered the service April 7, 1910, Promoted to regular force August 16, 1914.

STATISTICAL REPORT
OF THE
Lowell Police Department
January 1, 1921, to December 31, 1921

RECORD OF ARRESTS, 1921

AGAINST PUBLIC ORDER

OFFENCE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandoning an Infant										1			1
Adultery	2	3		2			1	2	3	2	1	2	18
Auto Law, Violation	6	1	9	14	8	5	15	33	14	16	4		127
Abortion									1				1
Bastardy	5		3	4		3	2	3	4	2	3	3	32
Broker, not licensed												1	1
Capias	4	6	9	6	10	1	2	4	9	9	5	6	71
Carrying Weapons	6	2	3		2	2	1	1				1	18
City Ordinance, vio.		2						3					5
Counterfeit Money							1						1
Cruelty to Animals	1									1			2
Deserter from U. S. Army	2	3		3		5	4	5		1		1	24
Delinquents		10	8		4	8	9	11	2	1	8	3	64
Disturbing the Peace	3			1		2	3	4		1			14
Dog, Keep Unlicensed	1	1	1		1	3							7
Drunkenness	104	127	131	134	143	142	165	216	176	156	139	154	1787
Escaped from Prison	1	1		1	1	1		2	1	3	3	2	16
False Measure	1												1
Fish and Game Law	2								4		1		7
Fornication		1	4		4		2		1				12
Forgery										1			1
Gambling	1				2				1				4
Idle and Disorderly			1					3					4
Incest							1		1				2
Indecent Exposure				1		1			1				3
Interfering with Officer					1		1						1
Insane			4	2		1	1	1		1			11
Keeping House of Ill Fame		2				1			2				5
Labor Law, violation		1		2							8		11
Leading Idle and Vicious life		1											1
Lewd Cohabitation	5	4	5	2			5		1				22
Lewdness	9	4	2			1	1		2	1	1	1	22
Liquor Law, violation	12	20	23	16	11	14	19	22	33	16	16	10	212
Maintaining Gaming Resort							1						1
Neglected Children	16	4	1					4	5	4		4	38
Neglect of Family	18	5	17	10	16	9	18	17	19	12	12	12	165
Open Shop on Lord's Day						2							2
Opium Resort, Keeping									1				1
Permitting Minor to Loiter in Pool Room		1											1
Peddling Unlicensed				1									1
Perjury							1						1
Playing a Game on Lord's Day				1					4			5	10
Possession of Registered Milk Bottles			1	2									3
Practising Medicine, Unli- censed					3	2							5
Present at game on Lord's day	1		12			19	16	11		27	1		87
Present Where Gaming Im- plements Were Found	36						3	24					63
Profanity	1	1							2	2		1	5
Promoting Lottery									2	2	1		4
Pure Food Law, violation	2	2					4	1	12	2		4	37
Safe Keeping	14	7	13	17	12	13	18	12	8	10	8	14	146
Sale of Narcotics								2					2
Stubberness		3	1	1	8		4	3	1	3	2	1	27
Suspicious Person	22	11	6	9	6	6	12	10	21	7	6	10	126
Transient Vendor	1												1
Truants	1				1						2		4
Unnatural Act										2			2
Vagrants	3	2	1	1				1		2	1	4	15
Violation Building Law									2				2
Violation of Volsted Act	4			6	5		1		2			2	20
TOTAL	284	226	26	234	238	244	24	368	340	283	231	241	3277

RECORD OF ARRESTS AGAINST THE PERSON

OFFENCE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Assault with Intent to Rob												2	2
Assault and Battery	9	10	14	10	13	17	23	19	23	10	11	8	177
Assault with a Dangerous Weapon	1	1	1		1		2					3	9
As-sault, Felonious		2											2
Assault on Officer	3	1	2	1			1	2	7			1	18
Abduction		2											2
Manslaughter			2	2	3	3	2		1	2	4	1	20
Murder	3												3
Murder, Attempt										1			1
Rape		1	2	1				2	1				7
Robbery	3	1			3			4	1		1	1	14
Threats	1	1	3	2	5	4	4	4	1	1	1	3	30
TOTAL	20	19	24	16	25	24	32	31	44	14	17	19	285

RECORD OF ARRESTS AGAINST THE PROPERTY

OFFENCE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Attempt, Larceny	1		1				10					2	14
Attempt, Breaking and En- tering							4						4
Breaking and Entering	12	13	4		14		3	7	6	4	5	6	81
Evading Car Fare		2					1						3
Larceny	22	16	22	14	18	18	18	25	11	13	22	19	213
Malicious Injury to Property			2						1		1		4
Receiving Stolen Goods		1	1		1		1				2		6
Riding Freight			3					5	2				10
Sale of Mortgaged Property		3	1			1			1		1	1	8
Suspicion of Larceny	2			1									3
Taking a Team							1						1
Trespass	1	2	1			2	2	2	1				13
Embezzlement										1			1
TOTAL	38	37	35	15	5	28	40	38	20	21	32	29	433

DISTRIBUTION OF OFFENCES ACCORDING TO NATIONALITY

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
United States	179	160	147	141	146	180	202	249	204	171	159	139	2077
England	10	2	4	2	8	5	7	15	8	6	7	7	88
Ireland	16	36	36	22	36	23	38	47	46	25	33	38	402
Scotland	1	2	3	3	3	1	1	6	2	3	3	1	29
British Provinces	34	27	39	41	31	35	43	40	33	44	22	35	424
Greece	52	19	16	8	14	8	45	22	12	21	16	14	247
Russia	8	3	10	3	7	2	9	6	12	5	7	8	80
Turkish Empire	2		4	1	1	3	11	6	5	6	4	1	44
Poles	21	11	21	14	25	13	28	20	37	21	15	25	251
Lithuanians		5	3	8	5	7	5	3	12	3	6	5	62
Armenians		2		2			3	1	3				13
Miscellaneous	19	17	32	13	20	13	14	22	30	11	8	16	215
Total	342	284	315	265	296	296	406	437	404	318	280	289	3932

DISTRIBUTION OF OFFENCES ACCORDING TO TRADES AND PROFESSIONS

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Building Trades	19	12	15	16	21	16	28	37	40	23	14	23	264
Mechanical Trades	20	20	23	23	19	27	27	38	33	20	26	23	299
Mill and Factory	110	59	54	55	70	48	111	70	81	58	46	74	840
Shops and Stores	36	43	44	34	31	46	53	53	65	59	35	22	521
Professional	1		2	3	2	1	2	6	2	1	2		22
Agricultural	1	4	3	3	1	3	8	13	6	3	6	2	53
Clothing and Garb								3					3
Agents, etc.	3		6	4	1	6	5	5	8	6	4	6	54
Laborers	85	74	94	69	87	89	96	127	95	81	92	91	1078
Service, Domestic	18	16	22	12	22	21	18	12	16	18	12	18	205
Transportation	21	6	21	20	18	18	37	30	23	25	16	11	251
Children	23	25	16	4	16	15	11	27	15	16	27	17	211
Soldiers	3	23	10	17	4	5	7	6	8				88
Sailors	1			2	4	1	3	4	3			1	19
Miscellaneous		2	3	3				3	1	5			17
None	1							3	3				7
TOTAL	342	284	315	265	296	296	406	437	404	318	280	289	3932

DIVISIONAL REPORT
OF THE
Lowell Police Department
January 1, 1921, to December 31, 1921

[illegible]

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Total
Money Taken From and Return to Prisoners	\$1832.00	\$1021.02	\$1404.73	\$2282.4	\$1521.16	\$1434.49	\$1445.88	\$1813.34	\$1513.36	\$1303.78	\$1184.06	\$1273.40	\$18129.60
Defective Streets and Sidewalks	3	3	14	19	15	10	6	4	11	13	9	1	76
Obstructions Removed from Streets													73
Obstructions Unlocked	68	85	89	96	78	99	90	4	83	59	63	74	963
Lost Children Returned to Parents			1		1								4
Stray Teams Found and Put Up		2	1		1				1				5

MONTHLY REPORT OF POLICE MATRON OF ARRESTS OF WOMEN, 1921

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandoning Child	1			1				1	1	1			1
Adultery			1										1
Assault with Intent to Kill	2		1						1				1
Assault and Battery			2							2			1
Capias	6	10	12	8	13	8	12	12	7	11	4	6	109
Drunkenness	1		2		2				1				6
Fornication			1										1
Felonious Assault			1	1	1								3
Insane	2		1	1	3		2		1		2	1	12
Larceny	2	2	2	1	1		1		1				9
Lewd Cohabitation	6	6	2	1	1	1	1		1				16
Maintaining House of Ill Fame			2	1									1
Neglect of Family			4						1				1
Safe Keeping	4		1	3		6	4	2	2		5	6	36
Stubbornness			1				1				1		1
Vagrant				2			1	1	1				5
Violation of Liquor Law													1
Unlawfully sending a female to a house of ill fame													2
TOTAL	23	28	24	17	19	15	22	16	14	16	13	14	225
Minors	9	11	4	4	6	2	5	1	2	1	6	5	56
Money taken from prisoners and returned	\$5.00	\$49.18	\$9.05	\$15.18	\$18.61	\$30.74			\$50.63	\$1.32	\$6.00	\$50.00	\$241.74

REPORT OF CRIMINAL BUREAU OF INVESTIGATION FOR 1921

MONTHS	Arrests	Lost and Stolen	Recovered	Still Missing	Auto Stolen	Recovered
January .	34	1489 50	1187 00	252 50	1	1
February .	27	601 00	437 00	164 00		
March .	19	3317 25	2941 00	376 25	1	1
April .	21	2111 50	1821 40	290 10	5	5
May .	29	2035 01	1672 00	363 00	2	2
June .	26	1998 00	1521 00	477 00		
July .	25	2468 17	2087 75	380 42	7	5
August .	22	1787 63	1565 00	222 63	1	
September .	25	1554 03	1282 70	271 33	6	6
October .	28	1465 00	987 50	477 50	8	7
November .	19	1845 39	1623 00	222 39	4	4
December .	21	926 21	627 00	289 21	1	
Total .	296	\$21548.68	\$17762.35	\$8786.33	36	31

RECOVERED FOR OTHER CITIES

Somerville, Mass.	\$ 400 00
Boston, Mass.	4425 00
Cambridge, Mass.	1000 00
Malden, Mass.	1500 00
Medford, Mass.	400 00
Lawrence, Mass.	265 00
Malden, Mass.	1500 00
Lynn, Mass.	150 00
Salem, Mass.	1000 00
Manchester, N. H.	225 00
Nashua, N. H.	500 00
Laconia, N. H.	800 00
Providence, R. I.	2265 00

Total . \$14,430 00

PRISONERS ARRESTED FOR OTHER CITIES AND TOWNS

Amesbury, Mass.	1	Salem, Mass.	1
Ayer, Mass.	2	Somerville, Mass.	2
Boston, Mass.	7	Salisbury, Mass.	1
Chelsea, Mass.	1	Worcester, Mass.	6
Concord, Mass.	2	Concord, N. H.	2
Holyoke, Mass.	3	Grasmere, N. H.	1
Hudson, Mass.	1	Manchester, N. H.	2
Lawrence, Mass.	8	Portland, Me	1
Lynn, Mass.	1	Federal Government	1
Methuen, Mass.	1		

Respectfully submitted,

THOMAS R. ATKINSON,

Capt. of Police, Lowell, Mass.

REPORT OF POLICE SIGNAL SYSTEM, 1921

MONTHS			Duty Calls	Telephone	Wagon	Prisoners	Miles
January	.	.	38,265	3876	146	221	198
February	.	.	34,850	3244	131	151	168
March	.	.	38,644	3475	135	166	187
April	.	.	36,372	3250	140	161	182
May	.	.	34,888	2695	134	147	163
June	.	.	35,079	3092	126	172	165
July	.	.	35,706	3204	169	242	221
August	.	.	36,098	3177	184	253	267
September	.	.	34,598	3224	183	214	151
October	.	.	35,258	3526	154	193	200
November	.	.	34,804	3490	137	142	166
December	.	.	36,782	3588	154	187	192
TOTAL			431,344	39841	1797	2249	2260





